



*“Protecting Public Health and the Environment”*

## **CONTRACT B492A**

**PASSAIC VALLEY SEWERAGE COMMISSION  
600 WILSON AVENUE  
NEWARK, NJ 07105**

**CONTRACT AND SPECIFICATIONS**

**TO**

**FURNISH & DELIVER LUBRICANTS TO THE PVSC WAREHOUSE FOR A ONE  
(1) YEAR PERIOD**

**BID DOCUMENT SUBMISSION CHECKLIST**

Contract B492A FURNISH & DELIVER LUBRICANTS TO THE PVSC WAREHOUSE FOR A ONE  
(1) YEAR PERIOD

	<i>Item</i>	<i>Contract Section</i>	<i>Initial Each Item Submitted with Bid</i>
1.	Invitation To Bid	INV-1 to INV-3	
2.	Acknowledgment of Receipt of Changes to Bid Documents	ACK-1	
3.	Signature	S-1	
4.	References	R-1	
5.	Bid Bond or Certified Check *	BB-1	
6.	Statement of Ownership *	SO-1	
7.	Affirmative Action Compliance*	AAC-1	
8.	Instructions To Bidders	IB-1	
9.	Proposal	P-1 TO P-3	
10.	Bid Item List	VBL 1-5	
11.	Bidders Exception List	BE-1	
12.	Contract Agreement	CA-1 To CA-2	
13.	NJ Business Registration *	BR-1	
14.	General Conditions	GC-1 To GC-5	
15.	Supplemental Conditions	SC-1 To SC-5	
16.	Disclosure of Investment Activities in Iran	DISC-IR	
17.	Certification Of Non-Involvement in Prohibited Activities In Russia Or Belarus	DISC-RU	
18.	Specifications	Spec-1To- 77	

\* Failure to submit these documents is a mandatory cause for the bid to be rejected. (N.J.S.A. 40A:11-23-2)

SIGNATURE: The undersigned hereby acknowledges and has submitted the above listed requirements. This sheet must be submitted with the bid documents.

Name of Bidder:

(Company Name)

By Authorized Representative:

Signature:

Print Name and Title:

Date:

**INVITATION TO BID**

Notice is hereby given that Passaic Valley Sewerage Commission will receive sealed bids until 10:00 o'clock in the morning on **May 19, 2026**, in the PVSC Purchasing Department, Administration Building. At that time and place, the sealed proposals will be publicly opened, announced and recorded via the Zoom Conferencing Application at <https://pvsc.zoom.us/j/2496333971>. Bidders can also dial into the bid opening by phone at (1+646 876 9923), access code (249 633 3971).

**Proposals shall be enclosed in opaque sealed envelopes, addressed to the Passaic Valley Sewerage Commission, 600 Wilson Avenue, Newark, New Jersey 07105, with the name and address of the bidder plainly marked upon the outside thereof. (If forwarded by mail, the sealed envelope containing the proposal, marked as directed above must be enclosed in another envelope addressed as specified in the Proposal, preferably by registered mail.) (If forwarded by express carrier or other delivery service, please be advised that access to the PVSC is restricted to the following address: 699 Avenue P, Newark New Jersey 07105).** The outside envelope containing bids must clearly identify the bid number, contract name and bid opening date. Failure to follow this procedure is grounds for rejection.

**Security Notice: All contractors, subcontractors, contractor employees and/or representatives entering the plant must have and must present to PVSC Security, government issued identification such as a valid Picture Driver's License or Passport. This applies to bid openings, pre-bid conferences and all on-premises contract work.**

All bids must be made upon the blank form of proposal annexed hereto. All blank spaces must be filled in black ink, in both words and figures, with the amounts for which the proposal is made. The proposal must be signed by the bidder who shall include his business address.

It is the purpose of Passaic Valley Sewerage Commission not to award the contract to any bidder who does not furnish evidence satisfactory to them that he is responsible and that he has sufficient financial resources, ability, experience and plant to enable him to prosecute the work successfully, and to fulfill all requirements of the contract.

Each bid must be accompanied by a certified check, or by a bid bond in an amount not less than **\$500.00** enclosed in a sealed envelope, with the bid. Certified checks shall be drawn upon a National Bank or a Trust Company doing business in the State of New Jersey, and shall be payable to the order to of the Passaic Valley Sewerage Commission. Bid bonds shall be prepared on the form of Bid Bond attached hereto, and shall be duly executed by the bidder as principal and having as surety thereon, sureties or a surety company shall be licensed to do business in the State of New Jersey, and listed in the current Federal Register, Department of the Treasury Circular 570, "Surety Companies Acceptable on Federal Bonds.

Certified checks will be returned to all except the three (3) lowest formal bidders within ten (10) days after the formal opening of bids (Sundays and Holidays Excepted, and the remaining checks will be returned to the unsuccessful bidders within three (3) days after the Commission and the accepted bidder have executed the contract, or if no contract has been so executed, within 60 days after the date of the opening of bids, upon demand of the bidder at any time thereafter, as long as he has not been notified of the acceptance of his bid.

All bidders on this contract are required to complete a "Statement of Ownership of all Owners of 10% or more of the Stock of the Corporation" found in the contract documents.

All bidders on this contract are required to hold or obtain a "New Jersey Business Registration Certificate" as required by N.J.S.A. 52:32-44. Information on New Jersey Business Registration

**Investment Activities in Iran, Russia or Belarus**

In accordance with N.J.S.A. 52:32-58 et seq., Bidder shall certify and submit with their bid forms of Certification promulgated by State of New Jersey Division of Purchase and Property entitled "**Certification of Non-Involvement in Prohibited Activities in Iran Form**" and "**Certification of Non-Involvement In Prohibited Activities In Russia Or Belarus**". The forms of Certification and appropriate list dated January 28, 2013 can be found in this contract document and at:

<https://www.nj.gov/treasury/purchase/forms/DisclosureofInvestmentActivitiesinIran.pdf> and [Russia Act Notice 1.10.2024.pdf \(nj.gov\)](https://www.nj.gov/treasury/purchase/forms/RussiaActNotice1.10.2024.pdf)

**It is the responsibility of Bidder to ensure that the most up to date list issued by the Division of Purchase and Property is attached to the Certification submitted with this Bid.**

The bidder to whom the contract is awarded will be required to provide the necessary documents as required by Public Law 1975, Chapter. 127, NJAC 17:27 Affirmative Action Compliance.

The bidder to whom the contract is awarded will be required to execute the contract within ten (10) days (not including Sunday) from the date of the mailing of a notice from Passaic Valley Sewerage Commission to the bidder, according to the address given by him, that the contract is ready for signature; and in case of his failure or neglect so to do, Passaic Valley Sewerage Commission may, at their option, determine that the bidder has abandoned the contract; and thereupon the proposal and acceptance shall be null and void, the bid security accompanying the proposal shall be forfeited to the Passaic Valley Sewerage Commission, and the bidder shall additionally be liable for all damages to the Commission occasioned by such default.

The sureties or surety company must be satisfactory to the Passaic Valley Sewerage Commission.

Passaic Valley Sewerage Commission reserves the right to reject any and all bids, or to accept any bid should they deem it to be for their interest so to do. Passaic Valley Sewerage Commission also reserves the right to waive any informality in any bid should they deem it to be for their interest so to do.

**CONTRACT B492A**

**INV-3**

If the contractor elects to provide the specified bid security in lieu of a performance bond, the bid security shall become a bond for the successful bidder and will be returned to him upon completion of the contract.

Questions and request for proposals shall be directed to the Passaic Valley Sewerage Commission Purchasing Department, telephone number (973) 817-5705

PASSAIC VALLEY SEWERAGE COMMISSION  
600 Wilson Avenue, Newark, N.J. 07105

**CONTRACT B492A**

**ACK-1**

PASSAIC VALLEY SEWERAGE COMMISSION  
ACKNOWLEDGMENT OF RECEIPT OF CHANGES TO BID DOCUMENTS FORM

**CONTRACT B492A**  
**FURNISH & DELIVER LUBRICANTS TO THE PVSC WAREHOUSE FOR A ONE**  
**(1) YEAR PERIOD**

Pursuant to N.J.S.A. 40A:11-23.1a, the undersigned bidder hereby acknowledges receipt of the following notices, revisions, or addenda to the bid advertisement specifications or bid documents. By indicating date of receipt, bidder acknowledges the submitted bid takes into account the provisions of the notice, revision or addendum. Note that the PVSC's record of notice to bidders shall take precedence and that failure to include provisions of changes in a bid proposal may be subject for rejection of the bid. If there were no revisions or addenda write **NONE** on the top line, sign the acknowledgment below and submit with the bid documents.

Local Unit Reference Number or Title of Addendum/Revision	How Received (mail, fax, pick-up, etc.)	Date Received

**Acknowledgment by Bidder:**

Name of Bidder:

(Company Name)

By Authorized Representative:

Signature:

Print Name and Title:

Date:

**CONTRACT B492A  
PASSAIC VALLEY SEWERAGE COMMISSION  
PROPOSAL TO**

Furnish & Deliver Lubricants to the PVSC Warehouse for a  
One (1) Year Period

To: **PASSAIC VALLEY SEWERAGE COMMISSION**

The undersigned, as bidder, declares that the only persons or parties interested in this proposal as principals are named under the bid signatures, that the proposal is made without collusion with any other person, firm or corporation; that he has carefully examined the annexed proposed form of contract and bond and the drawings therein referred to; and that he proposes and agrees, if this proposal is accepted, to contract with the Passaic Valley Sewerage Commission, in the form of the copy of the Contract deposited in the office; of the Passaic Valley Sewerage Commission, to perform all the work described in the contract specifications in the manner and time therein prescribed, and according to the requirements of the Engineer as therein set forth, and that he will take in full payment therefore the following sums, exclusive of all taxes, to wit:

If this proposal shall be accepted by the Passaic Valley Sewerage Commission, and the undersigned shall fail to contract as aforesaid, within ten (10) days (not including Sunday) from the date of the mailing of a notice from the Passaic Valley Sewerage Commission to him, according to the address herewith given, that the contract is ready for signature, then the Passaic Valley Sewerage Commission may at their option determine that the bidder has abandoned the contract and thereupon the proposal and acceptance shall be null and void, and the certified check and the proceeds thereof for \$ 500.00 dollars accompanying this proposal shall become the property of the Passaic Valley Sewerage Commission and additionally the bidder shall be liable to said Commission for any and all damages accruing to said Commission by reason of said failure to default; otherwise the accompanying check shall be returned to the undersigned.

Signature of bidder with residence and business address.

Business \_\_\_\_\_ Residence \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Dated:** \_\_\_\_\_

**Dated:** \_\_\_\_\_

If the bidder can give the names and addresses of the proposed sureties or surety company that will sign the bond, he is requested to do so below. The names will not be made public.

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The bidder is requested to state below what work of a character similar to that included in the proposed contract he has done, and give references that will enable the Passaic Valley Sewerage Commission to judge of his experience, skill and business standing.

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BID BOND

KNOW ALL MEN BY THESE PRESENTS That we, the undersigned \_\_\_\_\_ as Principal; and \_\_\_\_\_ Surety, are hereby held and firmly bound unto the Passaic Valley Sewerage Commission in the penal sum of \$ 1000.00 for the payment of which, well and truly to be made, we hereby jointly and severally bind ourselves, our heirs, executors, administrators, successors and assigns.

Signed this \_\_\_\_\_ day of \_\_\_\_\_

The condition of the above obligation is such that whereas the Principal has submitted to the Passaic Valley Sewerage Commission a certain Bid, attached hereto, and hereby made a part hereof, to enter into a contract in writing, to

FURNISH & DELIVER LUBRICANTS TO THE PVSC WAREHOUSE FOR A ONE (1) YEAR PERIOD

NOW THEREFORE,

- A) If said Bid shall be rejected, or, in the alternate,
B) If said Bid shall be accepted and the Principal shall execute and deliver a contract in the form of Contract attached hereto (properly completed in accordance with said Bid) and shall furnish a bond for his faithful performance of said Contract, and shall in all other respects perform the agreement created by the acceptance of said Bid.

Then, this obligation shall be void, otherwise the same shall remain in force, and effect; it being expressly understood and agreed that the liability of the Surety for any and all claims hereunder shall, in no event, exceed the penal amount of this obligation as herein stated.

The Surety, for value received, hereby stipulates and agrees that the obligations of said Surety and its bond shall be in no way impaired or affected by any extension of the time within which the Principal may accept such Bid; and said Surety does hereby waive notice of any such extension.

IN WITNESS WHEREOF, the Principal and the Surety have set their hands and seals, and such of them as are corporations having caused their corporate seals to be hereto affixed and these presents to be signed by their proper officers, the day and year first set forth above.

Principal: \_\_\_\_\_ Surety: \_\_\_\_\_
By: \_\_\_\_\_ By: \_\_\_\_\_
Authorized Signature Authorized Signature
Print Name Print Name
Title: \_\_\_\_\_ Title: \_\_\_\_\_
Seal: \_\_\_\_\_ Seal: \_\_\_\_\_

**STATEMENT OF OWNERSHIP**  
**(OWNERSHIP DISCLOSURE CERTIFICATION)**

N.J.S.A. 52:25-24.2 (P.L. 1977, c.33, as amended by P.L. 2016, c.43)

**This Statement Shall Be Included with  
All Bid and Proposal Submissions**

**Name of Business:** \_\_\_\_\_

**Address of Business:** \_\_\_\_\_

**Name of person completing this form:** \_\_\_\_\_

**N.J.S.A. 52:25-24.2:**

"No corporation, partnership, or limited liability company shall be awarded any contract nor shall any agreement be entered into for the performance of any work or the furnishing of any materials or supplies, unless prior to the receipt of the bid or proposal, or accompanying the bid or proposal of said corporation, said partnership, or said limited liability company there is submitted a statement setting forth the names and addresses of all stockholders in the corporation who own 10 percent or more of its stock, of any class, or of all individual partners in the partnership who own a 10 percent or greater interest therein, or of all members in the limited liability company who own a 10 percent or greater interest therein, as the case may be.

If one or more such stockholder or partner or member is itself a corporation or partnership or limited liability company, the stockholders holding 10 percent or more of that corporation's stock, or the individual partners owning 10 percent or greater interest in that partnership, or the members owning 10 percent or greater interest in that limited liability company, as the case may be, shall also be listed. The disclosure shall be continued until names and addresses of every noncorporate stockholder, and individual partner, and member, exceeding the 10 percent ownership criteria established in this act, has been listed.

To comply with this section, a bidder with any direct or indirect parent entity which is publicly traded may submit the name and address of each publicly traded entity and the name and address of each person that holds a 10 percent or greater beneficial interest in the publicly traded entity as of the last annual filing with the federal Securities and Exchange Commission or the foreign equivalent, and, if there is any person that holds a 10 percent or greater beneficial interest, also shall submit links to the websites containing the last annual filings with the federal Securities and Exchange Commission or the foreign equivalent and the relevant page numbers of the filings that contain the information on each person that holds a 10 percent or greater beneficial interest."

The Attorney General has advised that the provisions of N.J.S.A. 52:25-24.2, which refer to corporations and partnerships apply to limited partnerships, limited liability partnerships, and Subchapter S corporations.

This Ownership Disclosure Certification form shall be completed, signed and notarized.

**Failure of the bidder/proposer to submit the required information is cause for automatic rejection of the bid or proposal**

**Part I**

**Check the box that represents the type of business organization:**

- Sole Proprietorship (skip Parts II and III, sign and notarize at the end)
- Non-Profit Corporation (skip Parts II and III, sign and notarize at the end)
- Partnership       Limited Partnership       Limited Liability Partnership
- Limited Liability Company
- For-profit Corporation (including Subchapters C and S or Professional Corporation)
- Other (be specific): \_\_\_\_\_

**Part II**

I certify that the list below contains the names and addresses of all stockholders in the corporation who own 10 percent or more of its stock, of any class, or of all individual partners in the partnership who own a 10 percent or greater interest therein, or of all members in the limited liability company who own a 10 percent or greater interest therein, as the case may be.

**OR**

I certify that no one stockholder in the corporation owns 10 percent or more of its stock, of any class, or no individual partner in the partnership owns a 10 percent or greater interest therein, or that no member in the limited liability company owns a 10 percent or greater interest therein, as the case may be.

**Sign and notarize the form below, and, if necessary, complete the list below.**

(Please attach additional sheets if more space is needed):

Name: \_\_\_\_\_

Name: \_\_\_\_\_

Address: \_\_\_\_\_

Address: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**Part III - Any Direct or Indirect Parent Entity Which is Publicly Traded:**

“To comply with this section, a bidder with any direct or indirect parent entity which is publicly traded may submit the name and address of each publicly traded entity and the name and address of each person that holds a 10 percent or greater beneficial interest in the publicly traded entity as of the last annual filing with the federal Securities and Exchange Commission or the foreign equivalent, and, if there is any person that holds a 10 percent or greater beneficial interest, also shall submit links to the websites containing the last annual filings with the federal Securities and Exchange Commission or the foreign equivalent and the relevant page numbers of the filings that contain the information on each person that holds a 10 percent or greater beneficial interest.”

- Pages attached with name and address of each publicly traded entity as well as the name and address of each person that holds a 10 percent or greater beneficial interest.

**OR**

- Submit here the links to the Websites (URLs) containing the last annual filings with the federal Securities and Exchange Commission or the foreign equivalent.

\_\_\_\_\_  
\_\_\_\_\_

**AND**

- Submit here the relevant page numbers of the filings containing the information on each person holding a 10 percent or greater beneficial interest.

\_\_\_\_\_

\_\_\_\_\_  
(Affiant)

Subscribed and sworn before me this \_\_\_\_ day of

\_\_\_\_\_, 2026.

(Notary Public)

\_\_\_\_\_  
(Print name of affiant and title if applicable)

(Corporate Seal if a Corporation)

My Commission expires:

IF AWARDED A CONTRACT YOUR COMPANY/FIRM WILL BE REQUIRED TO PROVIDE THE FOLLOWING INFORMATION TO THE COMMISSION PRIOR TO THE ACTUAL AWARD OF THE CONTRACT AND/OR EXECUTION THEREOF:

AFFIRMATIVE ACTION COMPLIANCE

Pursuant to Public Law 1975, C. 127, (NJAC 17:27 Affirmative Action Compliance requires that successful bidders on contracts let by Public Agencies prior to or with the execution of the contract, the low bidders shall furnish the Passaic Valley Sewerage Commission with one of the following documents, whichever may be applicable to his present situation.

1. Copy of a Federal letter of approval from the U. S. Department of Labor's Office of Federal Compliance Programs (OFCCP).
2. Photo copy of the Certificate of Employee Information Report.
3. A copy of form (A.A. 302) Affirmative Action Employee Information Report.
4. Failure to supply the Affirmative Action document within the time frame allowed by law, will require the Public Agency to declare the contractor as being non-responsive

INSTRUCTION TO BIDDERS

1. The vendor is not required to bid on every item on the contract. The vendor shall fill in the unit price for all the items he wishes to deliver.
2. Any manufacturer, brand, model, and/or any other proprietary trade name indicated on the bid by the PVSC serves to define the specifications of the items the PVSC wishes to be delivered. An approved equal may be furnished. All equals or exceptions submitted by bidder shall be cataloged and referenced to the PVSC specifications, and manufacturer's published technical bulletins. The documents shall be submitted with the bid proposal and conform to each requirement of the specifications.

Any and all exceptions or alternates to manufacturer's brand, model and/or proprietary trade name indicated, shall be legible and complete in every detail on the attached "bidders exception list", and additional stationary as required at bidders expense. It is understood if no exception is taken the vendor shall supply all the materials exactly as specified.

Where there is no manufacturer's brand, model, and/or proprietary trade name indicated on the specifications, the bidder shall detail and catalog on the "bidders exception" what he intends to supply, and shall include manufacturers technical bulletins.

Failure to supply any of the said technical data or to complete the "bidders exception" in the prescribed manner shall render the bid proposal "Non-Responsive"

3. The Commission reserve the right to award this contract on a per item basis, or in total, or they may accept any alternative that they deem to be in their best interest, or they may reject all bids.
4. All proposals shall be filled out by Handwritten Pen, preferably in black ink, or Typewriter, pencil entries not allowed, and must be legible. All corrections made after the bid is prepared must be made in ink, be clearly legible, and must be initialed by the person authorized to sign the bid. Failure to follow this procedure is grounds for rejection of the bid or bid items.
5. Bidders shall sign the bid, signed by an authorized representative of the bidding firm.

**NOTE: The vendor shall clearly mark on the outside of the envelope containing his bid: the bid number, contract name, and bid opening date. Failure to follow this procedure is grounds for rejection.**

**CONTRACT B492A**  
**FURNISH & DELIVER LUBRICANTS TO THE PVSC WAREHOUSE**  
**FOR A ONE (1) YEAR PERIOD**  
**BID SHEET**

NAME OF BIDDER:

BUSINESS NAME:

ADDRESS:

TELEPHONE NO:  FAX NUMBER:

E-MAIL ADDRESS:  FED I.D. #:

- A. The vendor shall furnish and deliver the items listed on the bid to the PVSC warehouse for a One (1) year period, for all expenses incurred in the performance of the work, for all risk and liabilities in connection with the work for the unit prices as shown on the Vendors Format List, Section 00400, Supplements to Bid Form.

The lubricants shall be provided in the manner specified and in conformity with the requirements set forth in the Contract Documents herein contained or hereunto attached and in accordance with the Contract Specifications.

In the event of a conflict between the bid specifications (request for proposal, invitation to bid, etc.) and the contractors bid submission (proposal, response, etc.) the terms of the specifications (or otherwise as referenced) shall govern the agreement between PVSC and the contractor.

The vendor shall perform the above work for the amounts shown on the Vendors Format List for the tasks or items as shown. Total number items bid \_\_\_\_\_

The term of this contract is for a One (1) year period, beginning May 1, 2026 and extending through April 30, 2027. All prices shall hold firm, and not be subject to increase during the term of the contract.

- B. All prices are exclusive of N. J. State and Federal Taxes. The Passaic Valley Sewerage Commission is exempt from the New Jersey Sales and Use Taxes, pursuant to Section 9(a)(1) of the New Jersey Sales and Use Tax Act (N.J.S.A. 54:32B-1 et seq.).
- C. The cost of all Warrantees shall be included in the lump sum amount.
- D. The price shall be net, including all transportation charges fully prepaid by vendor, F.O.B. Destination.
- E. The vendor is not required to bid on every item on the contract. The Commission reserve the right to award this contract on a per item basis, or they may accept any alternative that they deem to be in their best interest, or they may make no award and reject all bids should, in their judgment, it be in the public interest to do so.
- F. No exceptions will be permitted to the terms and conditions of the contract. Terms and conditions are in accordance with N. J. Laws for Public Bidding and the policies of the Passaic Valley Sewerage Commission. Any bids that include exceptions to the terms and conditions will be considered non-responsive and will be rejected.

- G.** If the Bidder intends to offer alternatives to the materials, equipment and/or services specified, then it is mandatory that the Bidders list and explain in detail any and all such exceptions to the specifications on the attached "Bidders Exception" sheet, and shall submit the sheet with his bid. If the exception involves material or equipment, the Bidder shall also include technical data to show that the exception is equal to or better than those specified. It is understood that if no exception is listed on the "Bidders Exceptions" sheet, the Bidder shall supply all the materials, equipment and/or services exactly as prescribed and shall return the "Bidders Exception" sheet marked "**NONE**".

Any proposed substitute shall currently be manufactured for sale and use by the commercial and industrial communities, and shall not be blended or manufactured for the sole purpose of meeting the specifications of this contract.

- H.** Submissions shall be limited to one (1) Name Brand product per line item. Product delivered shall not vary from the product(s) bid. Once a contract is awarded, vendors may not substitute other brands or qualities of lubricants from those originally bid and awarded.

All manufacturers of lubricants bid must be "**REGISTERED**" to the ISO 9000 or higher standards as established by the International Organization for Standardization (ISO). **Certificate of Registration for the manufacture of the finished product (not component parts) shall be submitted with the bid.** (This requirement will be waived only for those bid items specifically identified as being waived from this requirement in the specifications.)

The bidder shall be authorized by the manufacturer to distribute the products that are being proposed. The bidder shall also be licensed to re-package and deliver these products. Proof of licensing shall be furnished with the bid.

- I.** Failure to supply any of the technical data certifications, registrations or licensing as required elsewhere shall render the bid proposal "non-responsive" and it will be rejected. Data certification, registration, or licensing submitted to PVSC for previous bids or contracts for similar products is not acceptable.

Upon notification of an order from the PVSC, vendor guarantees that the items he bids on will be delivered within five (5) working days from said notifications, unless prevented by strike or strikers which prevent delivery of materials. Failure to deliver the items within the specified time may be considered an abandonment of the contract, and the Commission may seek redress for damages under the Default Article of the Contract.

- J.** Unless prevented by strike or strikers which prevents delivery of supplies from the manufacturer, failure to complete the work within the specified time shall be considered an abandonment of the contract and the Commission may seek redress for damages.

- K.** The Commission do not guarantee any minimum or maximum quantities. Material will be ordered as needed, and the vendor will only be paid for the actual material delivered at the appropriate bid price.

Vendor must submit with their Bid Proposal complete Product Data / Specification Sheet(s) from the manufacturer for each of their proposed lubricants. These product data must address all specifications required. If specifications are not addressed on lubricant manufacturer's standard product data sheet, a letter from the manufacturer's engineer addressing these specifications will be accepted. The engineer's name and direct phone number must be on the correspondence. This letter must be with the bid. No statement from a vendor, notarized or otherwise, shall by itself, be considered proof that a product meets the requirements of this bid.

- L. After acceptance by the PVSC the vendor shall submit a bill for the items delivered, and the Commission at their next scheduled monthly meeting will pay the amount due.

To assure timely payment, bills must be received by the PVSC Plant Engineering Department not less than eighteen (18) days prior to the Commission meeting date. (Meeting dates will be provided by PVSC.)

- M. **Proposals shall be enclosed in opaque sealed envelopes, addressed to Passaic Valley Sewerage Commission, 600 Wilson Avenue, Newark, New Jersey 07105, with the name and address of the bidder plainly marked upon the outside thereof. (If forwarded by preferably registered mail, the sealed envelope containing the proposal, marked as directed above must be enclosed in another envelope addressed as specified in the Proposal.) The outside envelope containing the bids must clearly identify the bid number, contract name and bid opening date. Failure to properly identify the contents may result in the bid being rejected.**

**Passaic Valley Sewerage Commission  
 BID SHEET B492A**

**FURNISH AND DELIVER LUBRICANTS TO THE PVSC WAREHOUSE FOR A ONE (1) YEAR PERIOD**

Line Item	Description	STOCK CODE	UOM
1	AUTOMOTIVE ENGINE OIL SAE 10W 40 PER PVSC SPEC #AU-1 SIZE: 55 GALLON DRUM	0193019	GAL
3	PREMIUM API/DC DIESEL ENGINE OIL SAE 30W PER PVSC SPEC #AU-2 SIZE: 5 GALLON CONTAINER		GAL
4	GEAR LUBRICANT SAE 80W 90 PER PVSC #AU-3 SIZE: 400 LB. DRUM (55 GAL.)	0193021	LB
5	GEAR LUBRICANT SAE 80W 90 PER PVSC #AU-3 SIZE: 35 LB. CONT. (5 GAL.)	0193010	LB
6	TRANSMISSION FLUID DEXRON III PER PVSC #AU-4 SIZE: 55 GALLON DRUM	0193022	GAL
8	HYDRAULIC OIL SAE 10W-30 PER PVSC SPEC #AU-6 SIZE: 55 GALLON DRUM	0193024	GAL
9	SINGLE VISCOSITY HD OIL SAE 10W PER PVSC SPEC #AU-7 SIZE: 55 GALLON DRUM	0193025	GAL
10	SINGLE VISCOSITY HD OIL SAE 20W PER PVSC SPEC #AU-8 SIZE: 55 GALLON DRUM	0193026	GAL
11	AUTOMOTIVE ENGINE OIL SAE 5W-30 PER PVSC SPEC #AU-9 SIZE: 55 GALLON DRUM	0190137	GAL
12	AUTOMOTIVE ENGINE OIL SAE 10W-30 PER PVSC SPEC #AU-10 SIZE: 55 GALLON DRUM		GAL
13	DIESEL ENGINE OIL SAE 15W-40 PER PVSC SPEC #AU-11 SIZE: 55 GALLON DRUM	0190138	GAL
14	TRANSMISSION FLUID DEXRON VI PER PVSC SPEC #AU-12 SIZE: 55 GALLON DRUM		GAL
16	SYNTHETIC GEAR LUBRICANT SAE-75W-90 PER PVSC SPEC #AU-13 SIZE: 35 LB.CONTAINER (5 GAL)		LB
17	HI-BASE OIL VISCOSITY GREASE NLGI-0 PER PVSC SPEC #GR-1 SIZE: 120 LB. DRUM		LB
18	HI-BASE OIL VISCOSITY GREASE NLGI-0 PER PVSC SPEC #GR-1 SIZE: 35 LB. CONTAINER	0193044	LB
19	LO-BASE OIL VISCOSITY GREASE NLGI-1 PER PVSC SPEC #GR-3 SIZE: 35 LB. CONTAINER	0193048	LB
20	MULTI PURPOSE GREASE NLGI-2 PER PVSC SPEC #GR-4 SIZE: 400 LB. DRUM	0193049	LB
21	MULTI PURPOSE GREASE NLGI-2 PER PVSC SPEC #GR-4 SIZE: 35 LB. CONTAINER		LB
26	LITHIUM SOAP EP GREASE NLGI-0 EP PER PVSC SPEC #GR-8 SIZE: 35 LB. CONTAINER	0193060	LB

**Passaic Valley Sewerage Commission  
 BID SHEET B492A**

**FURNISH AND DELIVER LUBRICANTS TO THE PVSC WAREHOUSE FOR A ONE (1) YEAR PERIOD**

Line Item	Description	STOCK CODE	UOM
27	LITHIUM SOAP EP GREASE NLGI-0 EP PER PVSC SPEC #GR-8 SIZE: 120 LB. CONTAINERS		LB
28	LITHIUM SOAP E GREASE NLGI-0 EP PER PVSC SPEC #GR-8 SIZE: 400 LB. DRUM	0193052	LB
30	LITHIUM SOAP EP GREASE NLGI-2 EP PER PVSC SPEC #GR-10 SIZE: 35 LB. CONTAINER	0193057	LB
31	LITHIUM SOAP EP GREASE NLGI-2 EP PER PVSC SPEC #GR-10 SIZE: 14.5 OZ. CARTRIDGE		EA
32	LITHIUM SOAP EP GREASE NLGI-2 EP PER PVSC SPEC #GR-10 SIZE: 120 LB. DRUM		LB
38	HYDRAULIC (ISO 32) PER PVSC SPEC #LO-3-32 SIZE: 55 GALLON DRUM	0193003	GAL
39	HYDRAULIC OIL (ISO 32) PER PVSC SPEC #LO-3-32 SIZE: 1,000 GALLON BULK DELIVERY		GAL
40	HYDRAULIC (ISO 32) PER PVSC SPEC #LO-3-32 SIZE: 5 GALLON CONTAINER		GAL
41	GENERAL PURPOSE GEAR OIL AGMA #1 PER PVSC SPEC #LO-4-46 SIZE: 55 GALLON DRUM	0193004	GAL
42	GENERAL PURPOSE GEAR OIL AGMA #2 PER PVSC SPEC #LO-5-68 SIZE: 55 GALLON DRUM	0193005	GAL
43	GENERAL PURPOSE GEAR OIL AGMA #3 PER PVSC SPEC #LO-6-100 SIZE: 55 GALLON DRUM	0193006	GAL
44	GENERAL PURPOSE GEAR OIL AGMA #4 PER PVSC SPEC #LO-7-150 SIZE: 55 GALLON DRUM	0193007	GAL
45	GENERAL PURPOSE GEAR OIL AGMA #4 PER PVSC SPEC #LO-7-150 SIZE: 5 GALLON CONTAINER	0193009	GAL
46	GENERAL PURPOSE GEAR OIL AGMA #5 PER PVSC SPEC #LO-8-220 SIZE: 55 GALLON DRUM	0193008	GAL
47	GENERAL PURPOSE GEAR OIL AGMA #5 PER PVSC SPEC #LO-8-220 SIZE: 5 GALLON CONTAINER		GAL
48	GENERAL PURPOSE EP GEAR OIL PER PVSC SPEC #LO-14-150EP SIZE: 400 LB. DRUM (55 GALLON DRUM)	0193014	LB
49	GENERAL PURPOSE EP GEAR OIL AGMA #5 EP PER PVSC SPEC #LO-15-220EP SIZE: 400 LB. DRUM (55 GALLON DRUM)	0193015	LB
50	GENERAL PURPOSE EP GEAR OIL AGMA #5EP PER PVSC SPEC #LO-15-220EP SIZE: 35 LB. CONTAINER (5 GAL)		LB

**Passaic Valley Sewerage Commission  
 BID SHEET B492A**

**FURNISH AND DELIVER LUBRICANTS TO THE PVSC WAREHOUSE FOR A ONE (1) YEAR PERIOD**

Line Item	Description	STOCK CODE	UOM
55	COMPOUNDED GEAR OIL PER PVSC SPEC LO-19-460C SIZE: 35 LB. CONT. (5 GAL.)		LB
57	GENERAL PURPOSE EP GEAR OIL AGMA #9005-f15 PER PVSC SPEC #LO-21-460EP SIZE: 55 GALLON DRUM		GAL
58	GENERAL PURPOSE GEAR OIL AGMA #9005-E02-EP PER PVSC SPEC #LO-22-680EP SIZE: 5 GALLON CONTAINER	1400000083	GAL
59	HYDRAULIC OIL (ISO-32) SPECIAL PURPOSE LUBRICATING PER PVSC SPEC #LO-23-32 SIZE: 1,000 GALLON BULK DELIVERY		GAL
60	VALVE SEALANT RESUN #62 PER PVSC SPEC #SE-5 SIZE: GUN STICK 4 PER BOX	0193089	BOX
61	VALVE SEALANT RESUN #101 PER PVSC SPEC #SE-6 SIZE: 5 GALLON CONTAINER		GAL
62	VALVE SEALANT RESUN #375 PER PVSC SPEC #SE-7 SIZE: 5 GALLON CONTAINER		GAL
63	VALVE SEALANT NORDSTROM #234 PER PVSC SPEC #SE-8 SIZE: GUN STICK 6 PER BOX		BOX
64	VALVE SEALANT NORDSTROM #1045 PER PVSC SPEC #SE-9 SIZE: 5 QUART CONTAINER		EA
67	SPRAY LUBRICANT PER PVSC SPEC #SP-2 SIZE: 12 OZ. CONTAINER	0193028	EA
68	MACHINE CUTTING OIL PER PVSC SPEC #SP-3 SIZE: 1 GALLON CONTAINER	0193029	GAL
69	VACUUM PUMP OIL PER PVSC SPEC #SP-4 SIZE: 5 GALLON CONTAINER	0193030	GAL
70	SOLUBLE OIL PER PVSC SPEC #SP-5 SIZE: 1 GALLON CONTAINER	0193031	GAL
71	DIALECTRIC OIL PER PVSC SPEC #SP-6 SIZE: 55 GALLON DRUM	0193032	GAL
72	DIALECTRIC OIL PER PVSC SPEC #SP-6 SIZE: 5 GALLON CONTAINER		GAL
73	PETROLEUM SOLVENT PER PVSC SPEC #SP-7 SIZE: 1 GALLON CONTAINER		GAL
74	INHIBITED INSULATING OIL PER PVSC SPEC #SP-8 SIZE: 15 GALLON CONTAINER		GAL
80	VACUUM PUMP OIL PER PVSC SPEC #SP-13 SIZE: 1 QUART CONTAINER 12/CASE	0191243	CAS

**Passaic Valley Sewerage Commission  
BID SHEET B492A**

**FURNISH AND DELIVER LUBRICANTS TO THE PVSC WAREHOUSE FOR A ONE (1) YEAR PERIOD**

Line Item	Description	STOCK CODE	UOM
81	SYNTHETIC VACUUM PUMP OIL PER PVSC SPEC #SP-14 SIZE: 5 GALLON CONTAINER Add info: NO SUBSTITUTES WILL BE ACCEPTED		GAL
82	MACHINE TOOL WAY OIL PER PVSC SPEC #SP-15 SIZE: 5 GALLON CONTAINER Add info: NO SUBSTITUTES WILL BE ACCEPTED		GAL
83	BIODEGRADABLE HYDRAULIC OIL (ISO 46) PER PVSC SPEC #SP-16 SIZE: 55 GALLON DRUM	1200000107	GAL
85	THREAD CUTTING OIL PER PVSC SPEC #SP-18 SIZE: 1 GALLON CONTAINER		GAL
86	AIR TOOL OIL PER PVSC SPEC #SP-19 SIZE: 1 QUART CONTAINER		EA
90	HIGH TEMPERATURE GREASE 2 EP PER PVSC SPEC #SPG-1 SIZE: 35 LB. CONTAINER	0193058	LB
92	SEMI-FLUID EP GREASE NL GI 000 PER PVSC SPEC #SPG-4 SIZE: 35 LB. CONTAINER Add info: NO SUBSTITUTES WILL BE ACCEPTED	0193061	LB
93	MULTI PURPOSE AUTOMOTIVE GREASE NLGI 2 EP PER PVSC SPEC #SPG-5 SIZE: 400 LB. DRUM	0193062	LB
94	OPEN GEAR GREASE 3 EP PER PVSC SPEC #SPG-10 SIZE: 35 LB. CONTAINER		LB
96	LITHIUM SOAP BASE MOLY GREASE EP-O PER PVSC SPEC #SPG-13 SIZE: 35 LB. CONTAINER		LB
97	LITHIUM SOAP BASE MOLY GREASE EP-O PER PVSC SPEC #SPG-13 SIZE: 120 LB. CONTAINER		LB
105	WIRE ROPE GREASE PER PVSC SPEC #SPG-18 SIZE: 5 GALLON CONTAINER		GAL
106	CORROSION CONTROL GREASE NLGI-2 PER PVSC SPEC #SPG-19 SIZE: 14 OZ. CARTRIDGE		EA
107	CORROSION CONTROL GREASE NLGI-2 PER PVSC SPEC #SPG-19 SIZE: 3 OZ. TUBE 2 PER PK		PK
108	ALUMINUM SOAP BASE MOLY GREASE NLGI-OEP PER PVSC SPEC #SPG-20 SIZE: 120 LB. CONTAINER		LB
109	ALUMINUM SOAP BASE MOLY GREASE NLGI-OEP PER PVSC SPEC #SPG-20 SIZE: 35LB. CONTAINER		LB
110	ALUMINUM SOAP BASE MOLY GREASE NLGI-1EP PER PVSC SPEC #SPG-21 SIZE: 120 LB. CONTAINER		LB
111	AUTOMATIC LUBRICATOR PER PVSC SPEC #SPG-22 SIZE: 20 CANISTER BOX		BOX

**Passaic Valley Sewerage Commission  
 BID SHEET B492A**

**FURNISH AND DELIVER LUBRICANTS TO THE PVSC WAREHOUSE FOR A ONE (1) YEAR PERIOD**

Line Item	Description	STOCK CODE	UOM
119	SYNTHETIC LUBRICANT (BELRAY SE2) PER PVSC SPEC #SY-11 SIZE: 400 LBS.	0193043	LB
122	SYNTHETIC OIL ADDITIVE (BELRAY 6 IN 1) PER PVSC SPEC #SY-18 (CASE/4) SIZE: 1 GALLON CAN		CAS
124	SYNTHETIC HEAVY DUTY GEAR LUBRICANT PER PVSC SPEC #SY-21-320 SIZE: 55 GALLON DRUM Add info: NO SUBSTITUTES WILL BE ACCEPTED		GAL
127	SYNTHETIC HEAVY DUTY GEAR LUBRICANT (ISO 22) PER PVSC SPEC #SY-24 SIZE: 55 GALLON DRUM		GAL
136	SYNTHETIC LUBRICANT (ISO-680) PER PVSC SPEC #SY-29 SIZE: 55 GALLON DRUM		GAL
141	FLUOROSILICONE GREASE FS 1292 PER PVSC SPEC SYGR-5 SIZE: 45 LB. CONTAINER Add info: NO SUBSTITUTES WILL BE ACCEPTED	0193075	LB
143	MINERAL POLYESTER SYNTHETIC GREASE (AEROSHELL #16) PER PVSC SPEC #SYGR-7 SIZE: 35 LB. PAIL Add info: NO SUBSTITUTES WILL BE ACCEPTED	0193077	LB
146	OXYGEN COMPATIBLE GREASE PER PVSC SPEC #SYGR-10 SIZE: 1.75 LB. CARTRIDGE		EA
147	OXYGEN COMPATIBLE GREASE PER PVSC SPEC #SYGR-10 SIZE: 16 LB. CONTAINER		LB
148	OXYGEN COMPATIBLE GREASE PER PVSC SPEC #SYGR-10 SIZE: 40 LB. CONTAINER		LB
149	HEAVY DUTY SYNTHETIC GREASE NLGI-1 1/2 PER PVSC SPEC #SYGR-11 SIZE: 14 OZ. CONTAINER		EA
150	HEAVY DUTY SYNTHETIC GREASE NLGI-1 1/2 PER PVSC SPEC #SYGR-11 SIZE: 35 LB. CONTAINER		LB
153	SYNTHETIC GREASE NGLI-2 PER PVSC SPEC #SYGR-14 SIZE: 14 OZ. CARTRIDGE		EA
154	SYNTHETIC GREASE NGLI-2 PER PVSC SPEC #SYGR-14 SIZE: 5 GALLON CONTAINER		GAL
155	SYNTHETIC GREASE NGLI-2 PER PVSC SPEC #SYGR-15 SIZE: 10 CANISTER BOX		BOX

BIDDERS EXCEPTIONS

Item No. Description (Including Manufacturer, Brand & Model Number)

**CONTRACT B492A  
AGREEMENT**

**PASSAIC VALLEY SEWERAGE COMMISSION  
600 WILSON AVENUE  
NEWARK, NEW JERSEY 07105**

**CONTRACT AND SPECIFICATIONS FOR**

**Furnish & Deliver Lubricants to the PVSC Warehouse for a  
One (1) Year Period**

**THIS AGREEMENT**, made and executed this \_\_\_\_\_ day of \_\_\_\_\_, 2026, by and between the Passaic Valley Sewerage Commission, a public body of the County of Essex, State of New Jersey, hereinafter called the PVSC, and

\_\_\_\_\_

a corporation chartered under the laws of the State of \_\_\_\_\_ partnership, individual with principals offices at \_\_\_\_\_

\_\_\_\_\_ hereinafter called the "Contractor".

**WITNESSETH:** That the said Contractor has agreed and by these presents does agree with the PVSC, for the Prices bid and stipulated in the Proposal herein contained or hereunto annexed and under the terms and conditions expressed in Bonds bearing even date with these presents, and herein contained or hereunto annexed, to furnish at his own cost and expense all the necessary materials, labor, superintendence, tools, and appliances and shall execute, construct, and finish and test in an expeditious and workmanlike manner all the work as described in the contract specifications commencing the work within ten (10) days unless stated otherwise in the bid documents, from the date of Notice to Proceed and executing the same within the time and proceed in the manner specified and in conformity with the requirements set forth in the Contract Documents herein contained or hereunto attached and in accordance with the Contract Specifications of said Work.

The Contractor shall proceed with the said Work in a prompt and diligent manner and shall do all parts thereof at such times in such order as the PVSC may approve. Further, he shall complete the whole of said Work in accordance with the Contract Documents to the satisfaction of the PVSC.

The PVSC shall not be liable to the Contractor for any neglect, default, delay or interference of or by another contractor, nor shall any such neglect, default, delay or interference of any other contractor, or alteration which may be required in said Work, release the Contractor from the obligation to finish the said Work within the time aforesaid or from the damages to be paid in default thereof.

Subject to the applicable provisions of law, the Contract shall be in full force and effect as a contract from and after the date when a fully executed and approved counterpart hereof is delivered to the Contractor at the address set forth above and shall remain and continue in full force and effect until after the expiration of the warranty period and the Contractor and the sureties are finally released by the PVSC.

In the event of a conflict between the bid specifications (request for proposal, invitation to bid, etc.) and the Contractors bid submission (proposal, response, etc.) the terms of the specifications (or otherwise as referenced) shall prevail in all cases and will govern in the award and agreement between the PVSC and the Contractor.

**IN WITNESS WHEREOF:** The parties hereto have executed this agreement the day and year first above mentioned.

BY: \_\_\_\_\_

**PASSAIC VALLEY SEWERAGE COMMISSION  
EXECUTIVE DIRECTOR**

(SEAL) ATTEST BY: \_\_\_\_\_

**PASSAIC VALLEY SEWERAGE COMMISSION  
ACTING CLERK**

\_\_\_\_\_  
**CONTRACTOR NAME**

BY: \_\_\_\_\_  
**CONTRACTOR**

(SEAL) ATTEST BY: \_\_\_\_\_

**CONTRACTOR**

**NEW JERSEY BUSINESS REGISTRATION REQUIREMENTS**

Pursuant to N.J.S.A. 52:32-44, PVSC is prohibited from entering into a contract with an entity unless the bidder and each subcontractor (if applicable) named in the proposal have a valid Business Registration Certificate on file with the Division of Revenue.

Proof of registration shall be a copy of the bidder's New Jersey Business Registration Certificate (BRC). A BRC is obtained from the New Jersey Division of Revenue. Information on the New Jersey Business Registration Certification Program, operated by the New Jersey Department of the Treasury, can be found on the internet at:

<http://www.nj.gov/njbusiness/registration/>

or by phone at 866-534-7789

If awarded a contract your company/firm shall provide written notice to its subcontractors of the responsibility to submit proof of business registration to the contractor.

Before final payment on the contract is made by the contracting agency, the contractor shall submit an accurate list and proof of business registration of each subcontractor or supplier used in the fulfillment of the contract or shall attest that no subcontractors were used.

For the term of the contract, the contractor and each of its affiliates and a subcontractor and each of its affiliates [NJSA 52:32-44(g)(3)] shall collect and remit to the Director, New Jersey Division of Taxation, the use tax due pursuant to the Sales and Use Tax Act on all sales of tangible personal property delivered into this state, regardless of whether the tangible personal property is intended for a contract with a contracting agency.

A business organization that fails to provide a copy of a business registration as required pursuant to section 1 of PL 2001, c. 134 (C.52:32-44 et al.) or subsection e. or f. of section 92 of PL 1977, c 110 (c.5:12-92), or that provides false business registration information under the requirements of either of those sections, shall be liable for a penalty of \$25 for each day of violation, not to exceed \$50,000 for each business registration copy not properly provided under a contract with a contracting agency.

**GENERAL CONDITIONS**

- a. The Contractor enters into this agreement with the full knowledge of the conditions and requirements of the specifications. The specifications, proposal, instruction to bidders, etc. will prevail in all cases over any conflict between the same and the General Conditions listed hereto.
- b. The Contractor agrees that during the entire term of the contract it will pursue the work faithfully and diligently and will, at all times, have the necessary sources of supply, labor, material and machinery necessary to complete the contract in accordance with the terms of the specifications.
- c. All work done under this contract shall be done to the satisfaction of the Engineer of P.V.S.C., or a P.V.S.C. Representative who shall in all cases determine the amount, quality, acceptability and fitness of the material and work which are to be paid for hereunder and shall decide any questions which may arise as to the fulfillment of this decision thereon shall be final and conclusive. The word "Engineer" shall mean the person holding the position of Manager of Plant Engineering of the Passaic Valley Sewerage Commission, or the authorized representative.
- d. If the Contractor should be adjudged a bankrupt, or if it should make a general assignment for the benefit of its creditors, or if a receiver should be appointed on account of its insolvency, or if it should persistently or repeatedly refuse or should fail to supply enough skilled workmen or proper materials, or if it should fail to make prompt payment to subcontractors for material, labor, or equipment rental, or persistently disregard laws, ordinances, or other instructions of the Engineer, or the PVSC representative, or this contract, then P.V.S.C., upon the certificate of the Engineer or the PVSC representative that sufficient cause exists to justify such action, may without prejudice to any other right or remedy and after giving the Contractor thirty (30) days written notice, terminate the employment of the Contractor. The termination of the employment of the Contractor under the provisions of this paragraph shall not relieve the surety of its responsibility.
- e. All notices, demands, requests, instructions, approvals and claims shall be in writing. Any notice to or demand upon the Contractor shall be sufficiently given if delivered at the office of the Contractor specified in the bid (or at such other offices as the Contractor may from time to time designate to the Engineer or the PVSC representative in writing) or if deposited in the United States mail in a sealed, postage prepaid envelope, or delivered by telephone electronic/facsimile (FAX) transmission system. All papers required to be delivered to P.V.S.C. shall, unless otherwise specified to the Contractor in writing, be delivered to the office of P.V.S.C. at 600 Wilson Avenue, Newark, New Jersey and any notice to or demand upon P.V.S.C. shall be sufficiently given if delivered to the said office, or if deposited in the United States mail in a sealed, postage-prepaid envelope, certified mail, return receipt requested.
- f. No final or semi-final payment shall be made until the representative has certified to P.V.S.C. that the work has been completed by the Contractor in accordance with the requirements of the plans, specifications and contract. Pursuant to N.J.S.A. 2A:30A-2(f), disputes regarding whether a party has failed to make payments required pursuant to N.J.S.A. 2A:30A-2 may be submitted to a process of alternative dispute resolution. Alternative dispute resolution permitted by this section shall not apply to disputes concerning the bid solicitation or award process, or to the formation of contracts or subcontracts. In any civil action brought to collect payments pursuant to this section, the action shall be conducted inside of this State and the prevailing party shall be awarded reasonable costs and attorney fees.

- g. The Contractor shall not assign the contract or sublet it in whole or in part without the prior written consent of P.V.S.C., nor shall the Contractor assign any monies due or becoming due to it without the prior written consent of P.V.S.C..
- h. This contract, and all incorporations by reference together with the plans, specifications and bid documents, constitutes the entire agreement and understanding between the parties. This contract may not be modified, altered, abridged, amended or supplemented, except by written agreement executed by the parties.
- i. Neither the inspection by the Engineer or any agent or employee of P.V.S.C., nor any order by P.V.S.C. for the payment of money, nor any payment for, or acceptance of, the whole or any part of the work, by the PVSC representative or the Engineer, nor any possession taken by P.V.S.C. or their employees, shall operate as a waiver of any provisions of this contract, or of any right to damage herein provided, nor shall any waiver of any breach of the contract be held to be a waiver of any or subsequent breach. Any remedy provided in this Contract shall be taken and construed as cumulative, that is, in addition to each and every other remedy herein provided, and P.V.S.C. shall also be entitled as of right to a writ of injunction against any breach of any of the provisions of this contract.
- j. The Contractor covenants and agrees that anything in this contract or in the contract documents to the contrary notwithstanding, or regardless of any matter, thing, contingency or condition unforeseen or otherwise, present or future, the Contractor shall not be entitled to receive any additional or further sums of money than the amounts in said contract documents provided, except pursuant to a written change order duly authorized by a resolution of P.V.S.C.; and the failure of P.V.S.C. to insist upon strict performance of any of the terms, covenants, agreements, provisions or conditions in this contract or in the contract documents or any one or more instances, shall not be construed as a waiver of relinquishment for the future of any such terms covenants, agreements, provisions and conditions, but the same shall be and remain in full force and effect with power and authority on the part of P.V.S.C. to enforce the same or cause the same to be enforced at any time, without prejudice to any other rights which P.V.S.C. may have against the Contractor under this contract or the contract documents.
- k. Plans, specifications and the within contract shall be construed in accordance with the laws of the State of New Jersey.
- l. The Contractor shall not employ any subcontractor that P.V.S.C. may object to as incompetent or unfit; nor shall the Contractor subcontract to any person that has submitted a bid proposal for the award of the contract. Additionally, the Contractor shall not enter into any joint venture of any kind whatsoever relating to the within construction. P.V.S.C. may waive the provisions of this paragraph in its sole and absolute discretion, upon submission of a written request by the Contractor for a waiver supported by a disclosure of all of the facts and circumstances accompanied by a copy of the joint venture contract agreement or understanding.
- m. The Contractor agrees that it is as fully responsible to P.V.S.C. for the acts and omissions of its subcontractors and of persons either directly or indirectly employed by them, as it is for the acts and omissions of persons directly employed by it.
- n. The Contractor will be required to comply with the requirements of all New Jersey Statutes affecting public contracts; more particularly, but not limited to, the provisions of the Statutes hereinafter recited. All statutes not referred to herein but required by law to be applicable to public contracts are incorporated herein as though fully set forth.
- o. Any spillage caused by the Contractor, his subcontractor, his suppliers or his equipment while on P.V.S.C. property, shall be the Contractor's responsibility to properly clean up at the Contractor's expense. The cleanup shall meet all Federal and State requirements and regulations, including supplying all documentation. A copy of the vendor's/contractor's spill response plan shall be submitted to the P.V.S.C. upon award of this contract.

- p. Representatives of P.V.S.C. may have access to the work when it is in progress. Any inspection costs incurred by P.V.S.C. by reason of any breach or derelictions by the Contractor shall be chargeable to the Contractor.
  
- q. Contractor shall indemnify and save harmless P.V.S.C. against any and all damages to property or injuries to or death of any person or persons, including property and employees or agents of P.V.S.C., and/or the Contractor, and shall defend, indemnify and save harmless P.V.S.C. from any and all claims, demands, suits, actions, or proceedings of any kind or nature including workmen's compensation claims, of or by anyone whomsoever, in any way resulting from or arising out of the operations in connection herewith, including operations of subcontractors and acts or omissions of employees or agents of Contractor or its subcontractors. Insurance coverage specified herein constitutes the minimum requirements and said requirements shall in no way lessen or limit the liability of Contractor under the terms of the contract. Contractor shall procure and maintain, at its own cost and expense, any additional kinds and amounts of insurance, which, in its own judgment, may be necessary for its proper protection in the prosecution of the work. Any and all policies of insurance maintained by the Contractor shall be primary without contribution from any insurance carried by PVSC.
  
- r. Before final acceptance and final or semi-final payment by P.V.S.C., the Contractor shall deliver to the P.V.S.C. Representative a complete release of all liens arising out of the contract. Contractor agrees that at no time shall any municipal liens, mechanical liens, notices of intention, or secured instruments be filed against the work and should P.V.S.C. be compelled to remove or discharge a municipal lien, mechanic's lien, notice of intention or secured instrument, the Contractor shall reimburse P.V.S.C. for all costs.
  
- s. P.V.S.C. shall pay and the Contractor shall receive as full compensation for everything furnished and done under this contract, for all loss or damage arising out of the nature of the work, or from the action of the elements, or from any unforeseen obstruction or difficulty encountered in the prosecution of work, and for all risks of every description connected with the work, and for all expenses and losses incurred by or in consequence of the suspension or discontinuance of the work, all in accordance with the terms and conditions of this contract.
  
- t. The Commission may order, and the Contractor shall perform, extra work under this contract that is limited to the subject matter of this contract.

On any work done by the contractor, as ordered by the Commission in writing, which is not covered in the contract as defined in the contract herein the contractor shall be paid as extra work. Extra Work costs shall be arrived at as follows:

- (a) By such applicable unit prices, if any, as are set forth in the contract; or
  
- (b) If no such unit prices are set forth, and if the parties cannot agree upon prices or lump sum, then for work performed the Contractor shall receive as compensation the actual cost to him, which cost shall include only:
  - 1. Labor, including foreman, but not supervisors;
  - 2. Materials entering permanently into the work;
  - 3. The ownership or rental cost of construction plant and equipment during the time of use on the extra or changed order;
  - 4. Power and consumable supplies for the operation of power equipment during the above time;
  - 5. Insurance;
  - 6. Social Security and old age and unemployment contributions;
  - 7. Plus a fixed fee equal to 15% of the summation of items #1 through #6 above, which fee shall be compensation to cover the cost of supervision, overhead, bond, profit, and any other general expenses. The prime contractor will not be permitted to include both his 15% and any subcontractor's 15% for the items enumerated herein.

u. Default - In the event that the vendor, unless prevented by strike or strikers, which prevents delivery of parts or services, and shall fail to furnish the materials, or services listed in this contract as per the specifications, and according to all the terms of this contract, the Commission reserve the right to hold the Contractor in default of the contract and purchase the materials, or services through the open market, and the vendor agrees to pay the excess costs, if any, between the amount paid for same and the amount calculated at the contract price. The vendor shall also forfeit his bid or performance security to the P.V.S.C. and will not be considered a responsible bidder for any future P.V.S.C. bids.

Failure to comply with the N. J. Worker and Community Right to Know Act shall be reason for the Commission to hold the vendor in default of the contract, and apply the default conditions as described herein.

v. Affirmative Action - During the performance of this contract, the contractor agrees as follows:

The contractor or subcontractor, where applicable, will not discriminate against any employee or applicant for employment because of age, race, creed, color, national origin, ancestry, marital status, affectional or sexual orientation, gender identity or expression, disability, nationality or sex. Except with respect to affectional or sexual orientation and gender identity or expression, the contractor will ensure that equal employment opportunity is afforded to such applicants in recruitment and employment, and that employees are treated during employment, without regard to their age, race, creed, color, national origin, ancestry, marital status, affection-al or sexual orientation, gender identity or expression, disability, nationality or sex. Such equal employment opportunity shall include, but not be limited to the following: employment, up-grading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprentice-ship. The contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided by the Public Agency Compliance Officer setting forth provisions of this nondiscrimination clause.

The contractor or subcontractor, where applicable will, in all solicitations or advertisements for employees placed by or on behalf of the contractor, state that all qualified applicants will receive consideration for employment without regard to age, race, creed, color, national origin, ancestry, marital status, affectional or sexual orientation, gender identity or expression, disability, nationality or sex.

The contractor or subcontractor will send to each labor union, with which it has a collective bargaining agreement, a notice, to be provided by the agency contracting officer, advising the labor union of the contractor's commitments under this chapter and shall post copies of the notice in conspicuous places available to employees and applicants for employment.

The contractor or subcontractor, where applicable, agrees to comply with any regulations promulgated by the Treasurer pursuant to N.J.S.A. 10:5-31 et seq., as amended and supplemented from time to time and the Americans with Disabilities Act.

The contractor or subcontractor agrees to make good faith efforts to meet targeted county employment goals established in accordance with N.J.A.C. 17:27-5.2.

The contractor or subcontractor agrees to inform in writing its appropriate recruitment agencies including, but not limited to, employment agencies, placement bureaus, colleges, universities, and labor unions, that it does not discriminate on the basis of age, race, creed, color, national origin, ancestry, marital status, affectional or sexual orientation, gender identity or expression, disability, nationality or sex, and that it will discontinue the use of any recruitment agency which engages in direct or indirect discriminatory practices.

The contractor or subcontractor agrees to revise any of its testing procedures, if necessary, to assure that all personnel testing conforms with the principles of job related testing, as established by the statutes and court decisions of the State of New Jersey and as established by applicable Federal law and applicable Federal court decisions.

In conforming with the targeted employment goals, the contractor or subcontractor agrees to review all procedures relating to transfer, upgrading, downgrading and layoff to ensure that all such actions are taken without regard to age, race, creed, color, national origin, ancestry, marital status, affectional or sexual orientation, gender identity or expression, disability, nationality or sex, consistent with the statutes and court decisions of the State of New Jersey, and applicable Federal law and applicable Federal court decisions.

The contractor shall submit to the public agency, after notification of award but prior to execution of a goods and services contract, one of the following three documents:

Letter of Federal Affirmative Action Plan Approval;

Certificate of Employee Information Report; or

Employee Information Report Form AA-302 (electronically provided by the Division and distributed to the public agency through the Division's website at:

[http://www.state.nj.us/treasury/contract\\_compliance](http://www.state.nj.us/treasury/contract_compliance).

The contractor and its subcontractors shall furnish such reports or other documents to the Division of Purchase & Property, CCAU, EEO Monitoring Program as may be request-ed by the office from time to time in order to carry out the purposes of these regulations, and public agencies shall furnish such information as may be requested by the Division of Purchase & Property, CCAU, EEO Monitoring Program for conducting a compliance investigation pursuant to N.J.A.C. 17:27-1.1 et seq.

**SUPPLEMENTAL CONDITIONS**

**A. N.J.R.S. 10:2-1**

Every contract for or on behalf of the State or any county or municipality or other political subdivision of the State, or any agency of or authority created by any of the foregoing, for the construction, alteration or repair of any public building or public work or for the acquisition of materials, equipment, supplies or services shall contain provisions by which the contractor agrees that:

- a.** In the hiring of persons for the performance of work under this contract or any subcontract hereunder, or for the procurement, manufacture, assembling or furnishing of any such materials, equipment, supplies or services to be acquired under this contract, no contractor, nor any person acting on behalf of such contractor or subcontractor, shall, by reason of race, creed, color, national origin, ancestry, marital status, sex, affectional or sexual orientation discriminate against any person who is qualified and available to perform the work to which the employment relates;
- b.** No contractor, subcontractor, nor any person on his behalf shall in any manner, discriminate against or intimidate any employee engaged in the performance of work under this contract or any subcontract hereunder, or engaged in the procurement, manufacture, assembling or furnishing of any such materials, equipment, supplies or services to be acquired under such contract, on account of race, creed, color, national origin, ancestry, marital status, sex, affectional or sexual orientation;
- c.** There may be deducted from the amount payable to the contractor by the contracting public agency, under this contract, a penalty of \$50.00 for each person for each calendar day during which such person is discriminated against or intimidate in violation of the provisions of the contract; and
- d.** This contract may be cancelled or terminated by the contracting public agency, and all money due or to become due hereunder may be forfeited, for any violation of this section of the contract occurring after notice to the contractor from the contracting public agency of any prior violation of this section of the contract.

**B. N.J.R.S. 14A:13-3**

- 1.** No foreign corporation shall have the right to transact business in this State until it shall have procured a certificate of authority so to do from the Secretary of State. A foreign corporation may be authorized to do in this State any business which may be done lawfully in this State by a domestic corporation, to the extent that it is authorized to do such business if the jurisdiction of its incorporation, but no other business.
- 2.** Without excluding other activities which may not constitute transacting business in this State, a foreign corporation shall not be considered to be transacting business in this State, for the purposes of this act, by reason of carrying on in this State any one or more of the following activities;
  - a.** maintaining, defining or otherwise participating in any action or proceeding, whether judicial, administrative, arbitative or otherwise, or effecting the settlement thereof or the settlement of claims or disputes;
  - b.** holding meetings of its directors or shareholders;
  - c.** maintaining bank accounts or borrowing money, with or without security, even if such borrowings are repeated and continuous transactions and even if such security has a situs in this State;
  - d.** maintaining offices or agencies for the transfer, exchange and registration of its securities, or appointing and maintaining trustees or depositaries with relation to its securities.

3. The specification in subsection 14A:13-3(2) does not establish a standard for activities which may subject a foreign corporation to service of process or taxation in this State.

**C. N.J.R.S. 34:11-56.27**

In accordance with the New Jersey Prevailing Wage Act for workman engaged in any public work, prevailing wage rates can be paid (as shall be designated by the Commission) to the workers employed in the performance of the contract and that such workers shall be paid not less than such prevailing wage rate. In the event it is found that any workers, employed by the contractor or any subcontractor covered by said contract, has been paid a rate of wages less than the prevailing wage required to be paid by such contract the public body or lessor may terminate the contractor's or subcontractor's right to proceed with the work, or such part of the work as to which there has been a failure to pay required wages and to prosecute the work to completion or otherwise. The contractor and his sureties shall be liable to the public body or lessor for any excess costs occasioned thereby.

Pursuant to N.J.S.A. 34:11-56.25 et seq., successful bidders on projects for public work shall adhere to all requirements of the New Jersey Prevailing Wage Act. The contractor shall be required to submit a certified payroll record to the OWNER within ten (10) days of the payment of the wages. The contractor is also responsible for obtaining and submitting all subcontractors' certified payroll records within the aforementioned time period. The contractor shall submit said certified payrolls in the form set forth in N.J.A.C. 12:60-6.1(c). It will be the contractor's responsibility to obtain any additional copies of the certified payroll form to be submitted by contacting the Office of Administrative Law, CN 049, Trenton, New Jersey 08625 or the New Jersey Department of Labor, Division of Workplace Standards.

NOTE: Prevailing wage rates will not apply or be applicable to any contract if an appendix from the New Jersey Department of Labor which includes the "Prevailing Wage Rate Determination", listing the prevailing wage levels is not attached to the contract.

**D. N.J. S.A. 52:24-24.2**

No corporation or partnership shall be awarded any contract nor shall any agreement be entered into for the performance of any work or the furnishing of any materials or supplies, the cost of which is to be paid with or out of any public funds, by the State, or any county, municipality or school district, or any subsidiary or agency of the State, or of any county, municipality or school district, or by any authority, board, or commission which exercises governmental functions, unless prior to the receipt of the bid or accompanying the bid, of said corporation or said partnership, there is submitted a statement setting forth the names and addresses of all stockholders in the corporation or partnership who own 10% or more of its stock, of any class or of all individual partners in the partnership who own a 10% or greater interest therein, as the case may be. If one or more such stockholder or partner is itself a corporation or partnership, the stockholders holding 10% or more of that corporation's stock, or the individual partners owning 10% or greater interest in that partnership, as the case may be, shall also be listed. The disclosure shall be continued until all names and addresses of every noncorporate stockholder, and individual partner, exceeding the 10% ownership criteria established in this act, has been listed.

**E. N.J.S.A. 52:33-1 AND 3**

**52:33-2.** Notwithstanding any inconsistent provision of any law, and unless the head of the department, or other public officer charged with the duty by law, shall determine it to be inconsistent with the public interest, or the cost to be unreasonable, only domestic materials shall be acquired or used for any public work.

This section shall not apply with respect to domestic materials to be used for any public work, if domestic materials of the class or kind to be used are not mined, produced or manufactured, as the case may be, in the United States in commercial quantities and of a satisfactory quality.

**52:33-3** Every contract for the construction, alteration, or repair of any public work in this state shall contain a provision that in the performance of the work the contractor and all subcontractors shall use only domestic material in the performance of the work; but if the head of the department or other public officer authorized by law to make the contract shall find that in respect to some particular domestic materials it is impracticable to make such requirement or that it would unreasonably increase the cost, an exception shall be noted in the specifications as to that particular material, and a public record made of the findings which justified the exception.

The Contractor will be required to comply fully with the requirements set forth in NJAC 7:31-3.17 as stated below. Since the work is adjacent to but does not involve direct handling of chlorine equipment, the Contractor's major efforts should be directed in the area of emergency response.

7:31-3.17 Contractors and Contractor Employees

(a) The PVSC included in its risk management program written procedures to insure that work done by persons not directly employed by PVSC meets the applicable requirements of the risk management program. The procedures apply to specific activities involving the handling of chlorine by a contractor and/or its employees. Temporary employees, either directly hired by the PVSC or furnished by a non-employer agency, are subject to the same requirements of this chapter that are applicable to permanent PVSC employees.

(b) The procedure shall not apply to contractors providing incidental services which do not influence safety, such as janitorial work, food and drink services or other supply services;

(c) The procedures shall apply to the following activities performed by the contractor and/or its employees:

1. Maintenance or repair, turnaround, major renovation or specialty work on, or adjacent to, a facility handling chlorine;
2. Assistance as chlorine operators in facilities handling chlorine; and
3. Assistance during an emergency response accident involving chlorine, including mitigating the release.

(d) The procedure shall require the contractor to inform, train and evaluate its employees, as applicable to individual assignments, concerning;

1. The requirements of the site's preventive maintenance program;
  2. The applicable provisions of the facility standard operating procedure on chlorine; and
2. The applicable provision of the site's emergency response plan (plant evacuation).

- (e) The procedures shall require that:
1. The PVSC, when selecting a contractor, will obtain information regarding contractor's safety performance and programs;
  2. The PVSC shall inform the contractors of the known potential fire, explosion or toxic release hazards related to the contractor's work and the facility handling chlorine;
  3. The PVSC shall explain to the contractors the applicable provisions of the site's emergency response plan;
  4. The PVSC shall develop and implement safe work practice to control the entrance, presence and exit of the contractor and/or its employees.
  5. The PVSC will periodically evaluate the performance of the contractors in fulfilling their obligations as required below:
    - i. The PVSC will request that the contractor assure that it and/or each its employees is trained in work practices necessary to safely perform his/her job;
    - ii. The PVSC will request that the contractor assure that it and/or each of its employees is instructed in the known potential fire, explosion or toxic release hazards related to his/her job and the facility handling chlorine and the applicable provisions of the emergency response plan;
    - iii. The PVSC will request that the contractor document that it and/or each of its employees has received and understand the training requested by the registrant. The PVSC shall request that the contractor prepare a record which contains the identity of its employee, the date of training and the means used to verify that the employee understood the training;
    - iv. The PVSC will request that the contractor assure that it and/or each of its employees follows the safety rules of the PVSC including safe works practices;
    - v. The PVSC will request that the contractor advise the registrant of any unique hazards presented by the contractor's work or of any hazards found by the contractor during its work.

**G: N.J.S.A. 59:49-19 and N.J.S.A. 59:49-20**

**NOTICE TO ALL STATE VENDORS: SET -OFF FOR STATE TAX**

Please be advised that, pursuant to L. 1995, c. 159, effective January 1, 1996 and codified at N.J.S.A. 59:49-19 and N.J.S.A. 59:49-20, and notwithstanding any provision of the law to the contrary, whenever any taxpayer, partnership or S corporation under contract to provide goods or services or construction projects to the State of New Jersey or its agencies or instrumentalities, including the legislative and judicial branches of State government, is entitled to payment for those goods and services or construction projects, at the same time a taxpayer, partner or shareholder of that entity is indebted for any State tax, the Director of the Division of Taxation shall seek to set off that taxpayer's, partner's or shareholder's share of the payment of that indebtedness. The amount set off shall not allow for the deduction of any expenses or other deductions which might be attributable to the taxpayer, partner or shareholder subject to set-off. The Division of Taxation may initiate procedures to set off the tax debt of a specific vendor upon the expiration of ninety (90) days after either the issuance by the Division of a notice and demand for payment of any state tax owed by the taxpayer or the issuance by the Division of a final determination on any protest filed by the taxpayer against an assessment or final audit determination. A set-off reduces the contract payment due to a vendor by the amount of that vendor's state tax indebtedness or, in the case of a vendor-partnership or vendor-S corporation, by the amount of state tax indebtedness of any member-partner or shareholder of the partnership or S corporation, respectively. N.J.A.C. 18:2-8.3.

The Director of the Division of Taxation shall give notice of the set-off to the taxpayer, partner or shareholder and shall provide an opportunity for a hearing within thirty (30) days of such notice under the procedures for protests established under N.J.S.A. 54:49-18. No requests for conference, protest or subsequent appeal to the Tax Court from any protest permitted under N.J.S.A. 59:49-19 shall stay the collection of the indebtedness. Interest that may be payable by the State to the taxpayer, pursuant to L. 1987, c. 184 (N.J.S.A. 52:32-35) shall be stayed.

**DISCLOSURE OF INVESTMENT ACTIVITIES IN IRAN**

**DISC-IR**

**Bidder/Offeror:** \_\_\_\_\_

Pursuant to Public Law 2012, c. 25, any person or entity that submits a bid or proposal or otherwise proposes to enter into or renew a contract with the Passaic Valley Sewerage Commission must complete the certification below to attest, under penalty of perjury, that the person or entity's parents, subsidiaries, or affiliates is not identified on a list created and maintained by the N.J. Department of the Treasury as a person or entity engaging in investment activities in Iran pursuant to P.L. 2012, c. 25 ("Chapter 25 List") The Chapter 25 list is found on the Division's website at

<http://www.state.nj.us/treasury/purchase/pdf/Chapter25List.pdf>

Bidders must review this list prior to completing the below certification. Failure to complete the certification will render a bidder's proposal non-responsive.

If PVSC finds a person or entity to be in violation of the principles which are the subject of this law, it shall take action as may be appropriate and provided by law, rule or contract, including but not limited to, imposing sanctions, seeking compliance, recovering damages, declaring the party in default and seeking debarment or suspension of the person or entity.

**PLEASE CHECK THE APPROPRIATE BOX:**

I certify that I am the person listed above, or I am an officer or representative of the entity listed above and am authorized to make this certification on its behalf. I will skip Part 2 and sign and complete the Certification below.

I am unable to certify as above because the bidder and/or one or more of its parents, subsidiaries, or affiliates *is* listed on the New Jersey Department of Treasury Chapter 25 list. I will provide a detailed, accurate and precise description of the activities in Part 2 below and sign and complete the Certification below. Failure to provide such will result in the proposal being rendered as nonresponsive and appropriate penalties, fines and/or sanctions will be assessed as provided by law.

**PART 2: PLEASE**

**PROVIDE FURTHER INFORMATION RELATED TO INVESTMENT ACTIVITIES IN IRAN**

You must provide a detailed, accurate and precise description of the activities of the bidding person/entity, or one of its parents, subsidiaries or affiliates, engaging in the investment activities in Iran outlined above by completing the boxes below.

**Name:** \_\_\_\_\_

**Relationship to Bidder/Offeror:** \_\_\_\_\_

**Description of Activities:** \_\_\_\_\_

—

\_\_\_\_\_

**Duration of Engagement:** \_\_\_\_\_ **Anticipated Cessation Date:** \_\_\_\_\_

**Proposer Contact Name:** \_\_\_\_\_ **Contact Phone Number:** \_\_\_\_\_

**Certification:** I, being duly sworn upon my oath, hereby represent and state that the foregoing information and any attachments thereto to the best of my knowledge are true and complete. I attest that I am authorized to execute this certification on behalf of the above-referenced person or entity. I acknowledge that the State of New Jersey is relying on the information contained herein and thereby acknowledge that I am under a continuing obligation from the date of this certification through the completion of any contracts with the State to notify the State in writing of any changes to the answers of information contained herein. I acknowledge that I am aware that it is a criminal offense to make a false statement or misrepresentation in this certification, and if I do so, I recognize that I am subject to criminal prosecution under the law and that it will also constitute a material breach of my agreement(s) with the State of New Jersey and that the State at its option may declare any contract(s) resulting from this certification void and unenforceable.

**Full Name (Print)** \_\_\_\_\_ **Signature** \_\_\_\_\_

**Title** \_\_\_\_\_

**Date:** \_\_\_\_\_

# CERTIFICATION OF NON-INVOLVEMENT IN PROHIBITED ACTIVITIES IN RUSSIA OR BELARUS

Pursuant to N.J.S.A. 52:32-60.1, et seq. and N.J.S.A.40A:11-2.2 (L. 2022, c. 3) any person or entity (hereinafter "Vendor") that seeks to enter into or renew a contract with a local contracting unit subject to the Local Public Contracts Law for the provision of goods or services, or the purchase of bonds or other obligations, must complete the certification below indicating whether or not the Vendor is identified on the Office of Foreign Assets Control (OFAC) Specially Designated Nationals and Blocked Persons list, available here: <https://sanctionssearch.ofac.treas.gov/>. If the Department of the Treasury finds that a Vendor has made a certification in violation of the law, it shall take any action as may be appropriate and provided by law, rule or contract, including but not limited to, imposing sanctions, seeking compliance, recovering damages, declaring the party in default and seeking debarment or suspension of the party.

I, the undersigned, certify that I have read the definition of "Vendor" below, and have reviewed the Office of Foreign Assets Control (OFAC) Specially Designated Nationals and Blocked Persons list, and having done so certify

*(Check the Appropriate Box)*

A. That the Vendor is not identified on the [OFAC Specially Designated Nationals and Blocked Persons list on account of activity related to Russia and/or Belarus](#).

**OR**

B. That I am unable to certify as to "A" above, because the Vendor is identified on the [OFAC Specially Designated Nationals and Blocked Persons list on account of activity related to Russia and/or Belarus](#).

**OR**

C. That I am unable to certify as to "A" above, because the Vendor is identified on the [OFAC Specially Designated Nationals and Blocked Persons list](#). However, the Vendor is engaged in activity related to Russia and/or Belarus consistent with federal law, regulation, license or exemption. A detailed description of how the Vendor's activity related to Russia and/or Belarus is consistent with federal law is set forth below.

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*(Attach Additional Sheets If Necessary.)*

<hr/> Signature of Vendor's Authorized Representative	<hr/> Date
<hr/> Print Name and Title of Vendor's Authorized Representative	<hr/> Vendor's FEIN
<hr/> Vendor's Name	<hr/> Vendor's Phone Number
<hr/> Vendor's Address (Street Address)	<hr/> Vendor's Fax Number
<hr/> Vendor's Address (City/State/Zip Code)	<hr/> Vendor's Email Address

<sup>i</sup> Vendor means: (1) A natural person, corporation, company, limited partnership, limited liability partnership, limited liability company, business association, sole proprietorship, joint venture, partnership, society, trust, or any other nongovernmental entity, organization, or group; (2) Any governmental entity or instrumentality of a government, including a multilateral development institution, as defined in Section 1701(c)(3) of the International Financial Institutions Act, 22 U.S.C. 262r(c)(3); or (3) Any parent, successor, subunit, direct or indirect subsidiary, or any entity under common ownership or control with, any entity described in paragraph (1) or (2).

**LUBRICATING OILS, AUTOMOTIVE SPECIFICATIONS**

<b>PVSC SPEC NO.</b>	<b>DESCRIPTION</b>	<b>INDUSTRIAL / COMMERCIAL DESIGNATION</b>
AU-1	Automotive Engine Oil	SAE 10 W 40
AU-2	Premium API / DC Diesel Engine Oil	SAE 30W
AU-3	Gear Lubricant	SAE 80 W 90
AU-4	Transmission Fluid	Dexron II / III
AU-5	Brake Fluid	SAE J17093e/DOT3
AU-6	Hydraulic Oil	SAE 10W-30
AU-7	Single Viscosity HD Oil	SAE 10W
AU-8	Single Viscosity HD Oil	SAE 20W
AU-9	Automotive Engine Oil	SAE 5W-30
AU-10	Automotive Engine Oil	SAE 10W-30
AU-11	Diesel Engine Oil	SAE 15W-40
AU-12	Transmission Fluid	Dexron VI
AU-13	Synthetic Gear Lubricant	SAE 75W-90

<b>11910.5 Lubricant Specification</b>																	
PASSAIC VALLEY SEWERAGE COMMISSION PLANT ENGINEERING DEPARTMENT 600 Wilson Avenue, Newark, NJ 07105	Spec. No.: AU-1 Issue Date: MARCH 1990 Sheet No.: 1 of 1																
<b>PVSC ENGINEERING STANDARD</b>	TITLE Automotive Engine Oil 10W-40 Ap1 / SN, SM, SL																
Purpose/Objective: Procurement Specification; Lubricant																	
Description:  PVSC Stock Number(s): 55 Gal. - 0193019  <table> <tr> <td>SAE Grade</td> <td>10W-40</td> </tr> <tr> <td>Viscosity Index</td> <td>&gt; 145</td> </tr> <tr> <td>Pour Point</td> <td>&lt; -25 Deg. F</td> </tr> <tr> <td>Flash Point</td> <td>&gt; 391 Deg. F</td> </tr> <tr> <td>Viscosity</td> <td></td> </tr> <tr> <td>    cSt at 40 Deg. C</td> <td>97.0 - 104.5</td> </tr> <tr> <td>    cSt at 100 Deg. C</td> <td>14-15</td> </tr> <tr> <td>Gravity, API</td> <td>29-31.0</td> </tr> </table> <p>Manufacturers of lubricants to this specification must be "REGISTERED" to the ISO 9000 (or higher) standard as established by the International Organization for Standardization.</p>		SAE Grade	10W-40	Viscosity Index	> 145	Pour Point	< -25 Deg. F	Flash Point	> 391 Deg. F	Viscosity		cSt at 40 Deg. C	97.0 - 104.5	cSt at 100 Deg. C	14-15	Gravity, API	29-31.0
SAE Grade	10W-40																
Viscosity Index	> 145																
Pour Point	< -25 Deg. F																
Flash Point	> 391 Deg. F																
Viscosity																	
cSt at 40 Deg. C	97.0 - 104.5																
cSt at 100 Deg. C	14-15																
Gravity, API	29-31.0																
Notes: Conforming Commercial Products:  Shell Formulashell 10W-40 (Product Code 50204) Texaco Havoline 10W-40 (Code#223396) Mobil 10W-40 (Product Number Mobil Special SAE 10W40 112920)																	
Used on (PVSC Equipment):																	
Prepared by: KB/FG Date: March 1990	Revisions: March 1990 JAN. 1999 – Added ISO 9000 requirement JAN 2003 – Revised Performance Requirements and Conforming Products MARCH 2015 - Revised																
2010 PVSC Spec/lzf																	

<b>11910.5 Lubricant Specification</b>	
<b>PASSAIC VALLEY SEWERAGE COMMISSION PLANT ENGINEERING DEPARTMENT 600 Wilson Avenue, Newark, NJ 07105</b>	<b>Spec. No.: AU-2 Issue Date: MARCH 1990 Sheet No.: 1 of 1</b>
<b>PVSC ENGINEERING STANDARD</b>	<b>TITLE Premium API/CF Diesel Engine Oil SAE 30W</b>
<b>Purpose/Objective: Procurement Specification; Lubricant</b>	
<b>Description:</b>	
	<b>PVSC Stock Number(s): 55 Gal. - 0193020 5 Gal.</b>
<b>SAE Grade</b>	<b>30W</b>
<b>Viscosity Index</b>	<b>&gt; 95</b>
<b>Pour Point</b>	<b>&lt; -10 Deg. F</b>
<b>Flash Point</b>	<b>&gt; 420 Deg. F</b>
<b>Viscosity</b>	
<b>cSt at 40 Deg. C</b>	<b>99-105</b>
<b>cSt at 100 Deg. C</b>	<b>10.0-11.5</b>
<b>Gravity API</b>	<b>&gt; 26</b>
 <b>Manufacturers of lubricants to this specification must be "REGISTERED" to the ISO 9000 (or higher) standard as established by the International Organization for Standardization.</b>	
 <b>Notes:</b>	
<b>Conforming Commercial Products:</b>	
<b>Mobil Delvac 1230     Shell Rotella T1 30     Chevron Ursa Super Plus (Code#271203)</b>	
<b>Used on (PVSC Equipment):</b>	
<b>Prepared by: KB/FG Date: March 1990</b>	<b>Revisions: March 1990 JAN. 1999 – Added ISO 9000 requirement Jan 2003 – Revised Performance Requirements &amp; Conforming Products March 2015 - Revised</b>
<small>2010 PVSC Spec/lzf</small>	

<b>11910.5 Lubricant Specification</b>			
<b>PASSAIC VALLEY SEWERAGE COMMISSION  PLANT ENGINEERING DEPARTMENT  600 Wilson Avenue, Newark, NJ 07105</b>		<b>Spec. No.: AU-3  Issue Date: MARCH 1990  Sheet No.: 1 of 1</b>	
<b>PVSC ENGINEERING  STANDARD</b>		<b>TITLE 80W 90  Gear Lubricant</b>	
<b>Purpose/Objective: Procurement Specification; Lubricant</b>			
<b>Description:</b>			
		<b>PVSC Stock Number(s):</b> 400 Lb. Drum (55 Gal.) – 0193021 35 Lb. Container (5 Gal.) – 0193010	
<b>SAE Grade</b>	<b>80W-90</b>		
<b>Viscosity Index</b>	<b>&gt; 95</b>		
<b>Pour Point</b>	<b>&lt; -15</b>	<b>Deg. F</b>	
<b>Flash Point</b>	<b>&gt; 327</b>	<b>Deg. F</b>	
<b>Viscosity</b>			
<b>cSt at 40 Deg. C</b>	<b>135-145</b>		
<b>cSt at 100 Deg. C</b>	<b>14.2-15</b>		
<b>Rust ASTM D665:</b>			
<b>Gravity API</b>	<b>&gt; 26</b>		
<b>API Classification</b>	<b>GL-5 &amp; MT-1</b>		
Manufacturers of lubricants to this specification must be "REGISTERED" to the ISO 9000 (or higher) standard as established by the International Organization for Standardization.			
<b>Notes:</b>			
<b>Conforming Commercial Products:</b>			
Shell Spirax HD – 80W-90 (Product Code 59210) Mobil Lube HD PLUS 80W-90 Texaco Havoline 80W-90 (Code#222271)			
<b>Used on (PVSC Equipment):</b>			
<b>Prepared by: KB/FG  Date: March 1990</b>		<b>Revisions:</b> <b>March 1990</b> <b>EWD – Jan 1997: Changed 420 Lb. To 400 Lb. Drum (55 Gal.); Added 35 Lb. Container (5 Gal.) – 0193010</b> <b>JAN. 1999 – Added ISO 9000 requirement</b> <b>Jan. 2003 – Revised Performance Requirement and Conforming Products</b>	
<b>Approved by:  Date:</b>			
2010 PVSC Spec/lzf			

<b>11910.5 Lubricant Specification</b>			
<b>PASSAIC VALLEY SEWERAGE COMMISSION  PLANT ENGINEERING DEPARTMENT  600 Wilson Avenue, Newark, NJ 07105</b>		<b>Spec. No.: AU-4  Issue Date: MARCH 1990  Sheet No.: 1 of 1</b>	
<b>PVSC ENGINEERING  STANDARD</b>		<b>TITLE  Dexron II / III  Transmission Fluid</b>	
<b>Purpose/Objective: Procurement Specification; Lubricant</b>			
<b>Description:</b> <div style="text-align: right;"><b>PVSC Stock Number(s): 55 Gal. – 0193022</b></div> <b>SAE Grade</b> <b>Viscosity Index</b> > 145 <b>Pour Point</b> < -40 Deg. F <b>Flash Point</b> > 320 Deg. F <b>Viscosity</b> <b>cSt at 40 Deg. C</b> > 36 <b>cSt at 100 Deg. C</b> > 6 <b>Rust ASTM D665:</b> <b>Gravity API</b> > 30  <b>Color</b> Red  Manufacturers of lubricants to this specification must be “REGISTERED” to the ISO 9000 (or higher) standard as established by the International Organization for Standardization.			
<b>Notes:</b> <b>Conforming Commercial Products:</b>  <b>Mobil ATF D/M</b> <b>Chevron Automatic Transmission Fluid MD-3 (Code 226502)</b>			
<b>Used on (PVSC Equipment):</b>			
<b>Prepared by: FG</b> <b>Date: March 1990</b>		<b>Revisions:</b> <b>March 1990</b> <b>JAN. 1999 – Added ISO 9000 requirement</b> <b>Jan. 2003 – Revised Performance Requirements and Conforming Products</b>	
2010 PVSC Spec/lzf			

**11910.5 Lubricant Specification**

**PASSAIC VALLEY SEWERAGE COMMISSION  
PLANT ENGINEERING DEPARTMENT  
600 Wilson Avenue, Newark, NJ 07105**

**Spec. No. AU-5  
Issue Date: MARCH 1990  
Sheet No. 1 of 1**

**PVSC ENGINEERING  
STANDARD**

**TITLE SAEJ1703e/DOT 3  
Brake Fluid**

**Purpose/Objective: Procurement Specification; Lubricant**

**Description:**

**PVSC Stock Number(s): 5 Gal. – 0193023**

**May be used under all temperature conditions (with the exception of arctic) in which motor vehicles are operated. It can be safely and readily mixed with 11 brake fluids approved by vehicle manufacturers and will not deteriorate rubber or corrode metals. It exceeds current SAE Specification J1703e requirements for super heavy duty brake fluid and conforms to U.S. Federal Specification W-B-689B and FMVSS-116A-DOT-3.**

**Manufacturers of lubricants to this specification must be “REGISTERED” to the ISO 9000 (or higher) standard as established by the International Organization for Standardization.**

**Notes:**

**Conforming Commercial Products:**

**Texaco Havoline Brake Fluid (Code#222204)**

**Used on (PVSC Equipment):**

**Prepared by: KB/FG  
Date: March 1990**

**Revisions:**

**JAN. 1999 – Added ISO 9000 requirement  
Jan. 2003 – Revised Conforming Product**

**11910.5 Lubricant Specification**

PASSAIC VALLEY SEWERAGE COMMISSION  
 PLANT ENGINEERING DEPARTMENT  
 600 Wilson Avenue, Newark, NJ 07105

Spec. No.: AU-6  
 Issue Date: MARCH 1990  
 Sheet No.: 1 of 1

# PVSC ENGINEERING STANDARD

TITLE SAE10W-30  
 Hydraulic Oil / Tractor Hydraulic Fluid

Purpose/Objective: Procurement Specification; Lubricant

**Description:**

PVSC Stock Number(s): 55 Gal. – 0193024

SAE Grade	10W-30
Viscosity Index	145
Pour Point	< -35 Deg. F
Flash Point	> 390 Deg. F
Viscosity	
cSt at 40 Deg. C	> 41
cSt at 100 Deg. C	> 6.5
Gravity, API	> 28
Color	Blue

**APPLICATIONS REQUIRING:**  
 Kubota UDT  
 ZF TE-ML 03E/05F/17E  
 Volvo WB-101  
 Allison C-4  
 Ap1 gl-4  
 Vickers 35VQ25  
 CAT TO-2  
 CNH MAI 3505, 3525  
 Denison HF-0, HF-1, HF-2  
 Ford New Holland ESN-M2C-134-D, FNHA-2C-201.00  
 JI CASE MS 1204-07/09  
 Massey Ferguson M-1135 M-1141  
 Powerfluid 821 XL  
 John Deere J20C

Manufacturers of lubricants to this specification must be "REGISTERED" to the ISO 9000 (or higher) standard as established by the International Organization for Standardization.

**Notes:****Conforming Commercial Products:**

Mobil Fluid 424 (Product #101139)  
 Texaco TDH Oil Special (Code#221899)

**Used on (PVSC Equipment):**

Prepared by: KB/FG  
 Date: March 1990

**Revisions:**

March 1990  
 JAN. 1999 – Added ISO 9000 requirement  
 Jan. 2003 – Revised Performance Requirements and Conforming Products  
 MARCH 2015 - Revised

<b>11910.5 Lubricant Specification</b>																			
<b>PASSAIC VALLEY SEWERAGE COMMISSION</b> <b>PLANT ENGINEERING DEPARTMENT</b> <b>600 Wilson Avenue, Newark, NJ 07105</b>	<b>Spec. No.: AU-7</b> <b>Issue Date: MARCH 1990</b> <b>Sheet No.: 1 of 1</b>																		
<b>PVSC ENGINEERING STANDARD</b>	<b>TITLE High Detergent SAE 10W</b>																		
<b>Purpose/Objective: Procurement Specification; Lubricant</b>																			
<b>Description:</b> <p style="text-align: right;"><b>PVSC Stock Number(s): 55 Gal. – 0193025</b></p> <table> <tr> <td><b>SAE Grade</b></td> <td><b>10W</b></td> </tr> <tr> <td><b>Viscosity Index</b></td> <td><b>&gt; 105</b></td> </tr> <tr> <td><b>Pour Point</b></td> <td><b>&lt; -20 Deg. F</b></td> </tr> <tr> <td><b>Flash Point</b></td> <td><b>&gt; 405 Deg. F</b></td> </tr> <tr> <td><b>Viscosity</b></td> <td></td> </tr> <tr> <td>    <b>cSt at 40 Deg. C</b></td> <td><b>38.8-48.4</b></td> </tr> <tr> <td>    <b>cSt at 100 Deg. C</b></td> <td><b>5-7.6</b></td> </tr> <tr> <td><b>Gravity API</b></td> <td><b>28.5-30.6</b></td> </tr> <tr> <td><b>Ash. % (Sulfated)</b></td> <td><b>&lt; .65</b></td> </tr> </table> <p><b>Manufacturers of lubricants to this specification must be "REGISTERED" to the ISO 9000 (or higher) standard as established by the International Organization for Standardization.</b></p>		<b>SAE Grade</b>	<b>10W</b>	<b>Viscosity Index</b>	<b>&gt; 105</b>	<b>Pour Point</b>	<b>&lt; -20 Deg. F</b>	<b>Flash Point</b>	<b>&gt; 405 Deg. F</b>	<b>Viscosity</b>		<b>cSt at 40 Deg. C</b>	<b>38.8-48.4</b>	<b>cSt at 100 Deg. C</b>	<b>5-7.6</b>	<b>Gravity API</b>	<b>28.5-30.6</b>	<b>Ash. % (Sulfated)</b>	<b>&lt; .65</b>
<b>SAE Grade</b>	<b>10W</b>																		
<b>Viscosity Index</b>	<b>&gt; 105</b>																		
<b>Pour Point</b>	<b>&lt; -20 Deg. F</b>																		
<b>Flash Point</b>	<b>&gt; 405 Deg. F</b>																		
<b>Viscosity</b>																			
<b>cSt at 40 Deg. C</b>	<b>38.8-48.4</b>																		
<b>cSt at 100 Deg. C</b>	<b>5-7.6</b>																		
<b>Gravity API</b>	<b>28.5-30.6</b>																		
<b>Ash. % (Sulfated)</b>	<b>&lt; .65</b>																		
<b>Notes:</b> <b>Conforming Commercial Products:</b> <p>    <b>Shell Rotella T/10W (Product Code 54101) Shell Rotella T1 SAE 10W (550019855)</b>      <b>Texaco Ursa Super Plus (Code# 222110)</b>      <b>Mobil Hydraulic 10W (103164)</b></p>																			
<b>Used on (PVSC Equipment):</b>																			
<b>Prepared by: KB/FG</b> <b>Date: March 1990</b> <b>Approved by:</b> <b>Date:</b>	<b>Revisions:</b> <b>March 1990</b> <b>JAN. 1999 – Added ISO 9000 requirement</b> <b>Jan. 2003 – Revised Performance Requirements and Conforming Products</b> <b>MARCH 2015 - Revised</b>																		
<small>2010 PVSC Spec/lzf</small>																			

<b>11910.5 Lubricant Specification</b>	
<b>PASSAIC VALLEY SEWERAGE COMMISSION  PLANT ENGINEERING DEPARTMENT  600 Wilson Avenue, Newark, NJ 07105</b>	<b>Spec. No.: AU-8  Issue Date: MARCH 1990  Sheet No.: 1 of 1</b>
<b>PVSC ENGINEERING  STANDARD</b>	<b>TITLE High Detergent SAE 20W</b>
<b>Purpose/Objective: Procurement Specification; Lubricant</b>	
<b>Description:</b>	
<b>PVSC Stock Number(s): 55 Gal. – 0193026</b>	
<b>SAE Grade</b>	<b>20W</b>
<b>Viscosity Index</b>	<b>&gt; 100</b>
<b>Pour Point</b>	<b>&lt; -15 Deg. F</b>
<b>Flash Point</b>	<b>&gt; 415 Deg. F</b>
<b>Viscosity</b>	
<b>cSt at 40 Deg. C</b>	<b>62</b>
<b>cSt at 100 Deg. C</b>	<b>7.6-8.5</b>
<b>Gravity, API</b>	<b>28.1</b>
<b>Ash. % (Sulfated)</b>	<b>.80-1.0</b>
<p>Manufacturers of lubricants to this specification must be “REGISTERED” to the ISO 9000 (or higher) standard as established by the International Organization for Standardization.</p>	
<b>Notes:</b>	
<b>Conforming Commercial Products:</b>	
<b>Mobil Delvac 1220 (100916)</b>	
<b>Used on (PVSC Equipment):</b>	
<b>Prepared by: KB/FG</b>	<b>Revisions:</b>
<b>Date: March 1990</b>	<b>March 1990  JAN. 1999 – Added ISO 9000 requirement  Jan. 2003 – Revised Performance and Conforming Products  MARCH 2015 - Revised</b>
<small>2010 PVSC Spec/lzf</small>	

<b>11910.5 Lubricant Specification</b>			
<b>PASSAIC VALLEY SEWERAGE COMMISSION  PLANT ENGINEERING DEPARTMENT  600 Wilson Avenue, Newark, NJ 07105</b>		<b>Spec. No.: AU-9  Issue Date: JAN 1992  Sheet No.: 1 of 1</b>	
<b>PVSC ENGINEERING  STANDARD</b>		<b>TITLE 5W 30  Automotive Engine Oil  AP1/SN</b>	
<b>Purpose/Objective: Procurement Specification; Lubricant</b>			
<b>Description:</b>			
<b>PVSC Stock Number(s): 55 Gal. – 0190137</b>			
<b>SAE Grade</b>	<b>5W-30</b>		
<b>Viscosity Index</b>	<b>&gt; 155</b>		
<b>Pour Point</b>	<b>&lt; -37</b>	<b>Deg. F</b>	
<b>Flash Point</b>	<b>&gt; 391</b>	<b>Deg. F</b>	
<b>Viscosity</b>			
<b>cSt at 40 Deg. C</b>	<b>62.0-66.1</b>		
<b>cSt at 100 Deg. C</b>	<b>10.5-11.0</b>		
<b>Gravity API</b>	<b>32.4-33.0</b>		
<b>Ash. % (Sulfated)</b>	<b>0.96</b>		
<b>Copper %</b>	<b>0.012</b>		
<p>Manufacturers of lubricants to this specification must be “REGISTERED” to the ISO 9000 (or higher) standard as established by the International Organization for Standardization.</p>			
<b>Notes:</b>			
<b>Conforming Commercial Products:</b>			
Shell Formulashell Motor Oil (Product Code 50200) Texaco – Havoline (Code # 223394) Mobil Special X1 5W30 (112932)			
<b>Used on (PVSC Equipment):</b>			
<b>Prepared by: KB/FG  Date: Jan. 1992</b>		<b>Revisions:</b>	
		EWD – Jan. 1997 – Added Stock No. JAN. 1999 – Added ISO 9000 requirement Jan. 2003 – Revised Performance Requirements and Conforming Products MARCH 2015 - Revised	
2010 PVSC Spec/lzf			

<b>11910.5 Lubricant Specification</b>		
<b>PASSAIC VALLEY SEWERAGE COMMISSION  PLANT ENGINEERING DEPARTMENT  600 Wilson Avenue, Newark, NJ 07105</b>		<b>Spec. No.: AU-10  Issue Date: JAN 1992  Sheet No.: 1 of 1</b>
<b>PVSC ENGINEERING  STANDARD</b>		<b>TITLE Automotive Engine Oil SAE  10W-30</b>
<b>Purpose/Objective: Procurement Specification; Lubricant</b>		
<b>Description:</b>		
<b>PVSC Stock Number(s): 55 Gal.</b>		
<b>SAE Grade</b>	<b>10w-30</b>	<b>SUITABLE FOR USE TO:</b> Ford WSS-M2C945-A Ford WSS-M2C946-A Chrysler MS-6395 Ford WSS-M2C930-A Ford WSS M2C929-A GM 6094M
<b>Viscosity Index</b>	<b>133</b>	
<b>Pour Point</b>	<b>&lt;-25 Deg. F</b>	
<b>Flash Point</b>	<b>&gt;391 Deg. F</b>	
<b>Viscosity</b>		
<b>cSt at 40 Deg. C</b>	<b>69.0-75.0</b>	
<b>cSt at 100 Deg. C</b>	<b>10.4-10.8</b>	
<b>Gravity, API</b>	<b>30.0-30.5</b>	
<p>Manufacturers of lubricants to this specification must be "REGISTERED" to the ISO 9000 (or higher) standard as established by the International Organization for Standardization.</p>		
<b>Notes:</b> <b>Conforming Commercial Products:</b>  <b>Mobil Special X1 SAE 10W30 (112929)</b> <b>Texaco Havoline 10W-30 - (Product #223395)</b> <b>Shell Formulashell 10W-30 (Product Code 50203)</b>		
<b>Used on (PVSC Equipment):</b>		
<b>Prepared by: KB/FG</b> <b>Date: Jan. 1992</b>		<b>Revisions:</b> <b>JAN. 1999 – Added ISO 9000 requirement</b> <b>Jan. 2003 – Revised Performance Requirements and Conforming Products</b> <b>MARCH 2015 - Revised</b>
<small>2010 PVSC Spec/lzf</small>		

**11910.5 Lubricant Specification**

PASSAIC VALLEY SEWERAGE COMMISSION  
 PLANT ENGINEERING DEPARTMENT  
 600 Wilson Avenue, Newark, NJ 07105

Spec. No.: AU-11  
 Issue Date: OCT 1995  
 Sheet No.: 1 of 1

# PVSC ENGINEERING STANDARD

TITLE Diesel Engine Oil SAE  
 15W-40  
 API CJ-4

**Purpose/Objective:** Procurement Specification; Lubricant

**Description:**

PVSC Stock Number(s): 55 Gal. – 0190138

SAE Grade	15W-40	
Viscosity Index	>135	
Pour Point	<-25	Deg. F
Flash Point	>400	Deg. F
Viscosity		
cSt at 40 Deg. C	108-114	
cSt at 100 Deg. C	15-15.5	
Rust ASTM D665:		
Gravity, API	29-29.8	
TBN	> 10	

Manufacturers of lubricants to this specification must be "REGISTERED" to the ISO 9000 (or higher) standard as established by the International Organization for Standardization.

**Notes:****Conforming Commercial Products:**

Mobil Delvac 1300 Super 15W-40 (112690)  
 Chevron Delo 400 LE  
 Shell Rotella T TP 15W40 (550019918)

**Used on (PVSC Equipment):**

Prepared by: KB/FG  
 Date: Oct. 1995

**Revisions:**

EWD – Jan. 1997 – Added Stock No.  
 JAN. 1999 – Added ISO 9000 requirement  
 Jan. 2003 – Revised Performance Requirements and  
 Conforming Products  
 MARCH 2015 - Revised

<b>11910.5 Lubricant Specification</b>			
<b>PASSAIC VALLEY SEWERAGE COMMISSION</b> <b>PLANT ENGINEERING DEPARTMENT</b> <b>600 Wilson Avenue, Newark, NJ 07105</b>		<b>Spec. No.:</b> AU-12 <b>Issue Date:</b> JAN 1997 <b>Sheet No.:</b> 1 of 1	
<b>PVSC ENGINEERING STANDARD</b>		<b>TITLE</b> Dexron VI Transmission Fluid	
<b>Purpose/Objective:</b> Procurement Specification; Lubricant			
<b>Description:</b>			
		<b>PVSC Stock Number(s):</b> 55 Gal. 5 Gal.	
<b>SAE Grade</b>			
<b>Viscosity Index</b>		145-147	
<b>Pour Point</b>		<-40 Deg. F	
<b>Flash Point</b>		428 Deg. F	
<b>Viscosity</b>			
cSt at 40 Deg. C		29.5-30.6	
cSt at 100 Deg. C		5.83-6.0	
<b>Rust ASTM D665:</b>			
<b>Gravity API</b>		>31.3	
<b>Color</b>		Red	
Manufacturers of lubricants to this specification must be "REGISTERED" to the ISO 9000 (or higher) standard as established by the International Organization for Standardization.			
<b>Notes:</b>			
<b>Conforming Commercial Products:</b>			
Mobil ATF Dexron VI Chevron Havoline Automatic Transmission Fluid Dexron VI			
<b>Used on (PVSC Equipment):</b>			
<b>Prepared by:</b> KB/FG <b>Date:</b> Jan. 1997		<b>Revisions:</b> JAN. 1999 – Added ISO 9000 requirement Jan. 2003 – Revised Performance Requirements and Conforming Products MARCH 2015 - Revised	
2010 PVSC Spec/lzf			

<b>11910.5 Lubricant Specification</b>			
<b>PASSAIC VALLEY SEWERAGE COMMISSION PLANT ENGINEERING DEPARTMENT 600 Wilson Avenue, Newark, NJ 07105</b>		<b>Spec. No.: AU-13 Issue Date: Jan 2003 Sheet No.: 1 of 1</b>	
<b>PVSC ENGINEERING STANDARD</b>		<b>TITLE 75W 90 Synthetic Gear Lubricant</b>	
<b>Purpose/Objective: Procurement Specification; Lubricant</b>			
<b>Description:</b>			
<b>PVSC Stock Number(s):</b>			
<b>35 Lb. Container (5 Gal.)</b>			
<b>SAE Grade</b>	<b>75W-90</b>		
<b>Viscosity Index</b>	<b>140</b>		
<b>Pour Point</b>	<b>-48</b>	<b>Deg. F</b>	
<b>Flash Point</b>	<b>205</b>	<b>Deg. F</b>	
<b>Viscosity</b>			
<b>cSt at 40 Deg. C</b>	<b>120</b>		
<b>cSt at 100 Deg. C</b>	<b>15.9</b>		
<b>Gravity API</b>	<b>33.3</b>		
<b>API Classification</b>	<b>MT-1 / GL-5EP</b>		
<b>Manufacturers of lubricants to this specification must be "REGISTERED" to the ISO 9000 (or higher) standard as established by the International Organization for Standardization.</b>			
<b>Notes:</b>			
<b>Conforming Commercial Products:</b>			
<b>Mobil Delvac Synthetic Gear Oil 75W-90</b>			
<b>Must be 100% Group 4 (PAO) base stock or approved by Eaton Road Ranger (E500) and Meritor Extended Warranty of 750,000 with extended chains of 500,000 miles</b>			
<b>Used on (PVSC Equipment):</b>			
<b>Prepared by: JB Date: Jan 2003 Approved by: Date:</b>		<b>Revisions: MARCH 2015 - Revised</b>	
<small>2010 PVSC Spec/lzf</small>			

**GENERAL PURPOSE GREASE SPECIFICATIONS**

<b>PVSC SPEC NO.</b>	<b>DESCRIPTION</b>	<b>INDUSTRIAL / COMMERCIAL DESIGNATION</b>
GR-1	High Base Oil Viscosity Grease	NLGI 0
GR-3	Low Base Oil Viscosity Grease	NLGI 1
GR-4	Multi Purpose Grease	NLGI 2
GR-5	Low Base Oil Viscosity Grease	NLGI 2
GR-6	Multi Purpose Grease	NLGI 3
GR-7	Low Base Oil Viscosity Grease	NLGI 3
GR-8	Lithium Soap EP Grease	NLGI 0 EP
GR-9	Lithium Soap EP Grease	NLGI 1 EP
GR-10	Lithium Soap EP Grease	NLGI 2 EP
GR-11	Non-Soap EP Grease	NLGI 0 EP
GR-12	Non-Soap EP Grease	NLGI 1 EP
GR-13	Non-Soap EP Grease	NLGI 2 EP

<b>11910.5 Lubricant Specification</b>		
<b>PASSAIC VALLEY SEWERAGE COMMISSION  PLANT ENGINEERING DEPARTMENT  600 Wilson Avenue, Newark, NJ 07105</b>		<b>Spec. No.: GR-1  Issue Date: MARCH 1990  Sheet No.: 1 of 1</b>
<b>PVSC ENGINEERING  STANDARD</b>		<b>TITLE NLGI – 0  High Base Oil Viscosity Grease</b>
<b>Purpose/Objective: Procurement Specification; Lubricant</b>		
<b>Description:</b>		
<b>PVSC Stock Number(s): 120 Lb. –  35 Lb. - 0193044</b>		
<b>Operating Temperature Range</b>	<b>10-200</b>	<b>Deg. F</b>
<b>Sodium Soap, %</b>	<b>7%</b>	
<b>Penetration, ASTM @ 77 Deg. F Worked</b>	<b>370</b>	
<b>Oil Viscosity</b>		
<b>cSt at 40 Deg. C</b>	<b>880</b>	
<b>cSt at 100 Deg. C</b>	<b>37</b>	
<b>Manufacturers of lubricants to this specification must be “REGISTERED” to the ISO 9000 (or higher) standard as established by the International Organization for Standardization.</b>		
<b>Notes:</b> <b>Conforming Commercial Products:</b>		
<b>Used on (PVSC Equipment):</b>		
<b>Prepared by: KB/FG  Date: March 1990</b>	<b>Revisions:</b> <b>EWD – Jan. 1997 - Added 35 Lb. Stock No. 193044  Jan. 1999 – Added ISO 9000 requirement  Jan 2003 – Revised Performance Requirements</b>	
<b>2010 PVSC Spec/lzf</b>		

**11910.5 Lubricant Specification**

**PASSAIC VALLEY SEWERAGE COMMISSION**  
**PLANT ENGINEERING DEPARTMENT**  
 600 Wilson Avenue, Newark, NJ 07105

**PVSC ENGINEERING**  
**STANDARD**

TITLE

Spec. No.: **GR-3**  
 Issue Date: **MARCH 1990**  
 Sheet No.: **1 of 1**  
**NLGI – 1**  
**Low Base Oil Viscosity Grease**

**Purpose/Objective: Procurement Specification; Lubricant**

**Description:**

**PVSC Stock Number(s): 35 Lb. – 0193048**

<b>ASTM Worked Penetration at 77 Deg. F, 60 Strokes</b>	<b>325</b>
<b>Dropping Point, Deg. F</b>	<b>360</b>
<b>Timken EP Test, Lbs. Pass</b>	<b>5</b>
<b>Bomb Oxidation, 100 hrs. at 210 Deg. F, psi Drop</b>	<b>3</b>
<b>Mineral Oil Viscosity</b>	
<b>cSt at 40 Deg. C</b>	<b>60</b>
<b>cSt at 100 Deg. C</b>	<b>8</b>

**Manufacturers of lubricants to this specification must be “REGISTERED” to the ISO 9000 (or higher) standard as established by the International Organization for Standardization.**

**Notes:**

**Conforming Commercial Products:**

**Used on (PVSC Equipment):**

**Prepared by: KB/FG**  
**Date: March 1990**

**Revisions:**

**JAN 1999 – Added ISO 9000 requirement**

<b>11910.5 Lubricant Specification</b>	
<b>PASSAIC VALLEY SEWERAGE COMMISSION PLANT ENGINEERING DEPARTMENT 600 Wilson Avenue, Newark, NJ 07105</b>	<b>Spec. No.: GR-4 Issue Date: MARCH 1990 Sheet No.: 1 of 1</b>
<b>PVSC ENGINEERING STANDARD</b>	<b>TITLE NLGI – 2 Multi-Purpose Grease</b>
<b>Purpose/Objective: Procurement Specification; Lubricant</b>	
<b>Description:</b>	
	<b>PVSC Stock Number(s): 400 Lb. – 0193049 35 Lb. Container</b>
<b>Soap Type</b>	<b>Lithium Complex</b>
<b>Penetration @ 77 Deg. F, worked</b>	<b>265-295</b>
<b>Struct:</b>	<b>Smooth</b>
<b>Mineral Oil Base Viscosity</b>	
<b>cSt at 40 Deg. C</b>	<b>220</b>
<b>cSt at 100 Deg. C</b>	<b>13</b>
<b>Drop Point °C (°F) min.</b>	<b>248 (475)</b>
<b>Corrosion Prevention (ASTM D 1743)</b>	<b>Pass</b>
<b>Manufacturers of lubricants to this specification must be “REGISTERED” to the ISO 9000 (or higher) standard as established by the International Organization for Standardization.</b>	
<b>Notes:</b>	
<b>Conforming Commercial Products:</b>	
<b>Mobil Grease xhpzzz</b>	
<b>Used on (PVSC Equipment):</b>	
<b>Prepared by: KB/FG Date: March 1990</b>	<b>Revisions: March 1990 Jan. 1999: (1) Drop Point was 500°F (2) Conforming Product was Multilith #22 JAN 1999 – Added ISO 9000 requirement Jan 2003 – Revised Performance Requirements MARCH 2015 - Revised</b>
<b>2010 PVSC Spec/lzf</b>	

<b>11910.5 Lubricant Specification</b>	
<b>PASSAIC VALLEY SEWERAGE COMMISSION PLANT ENGINEERING DEPARTMENT 600 Wilson Avenue, Newark, NJ 07105</b>	<b>Spec. No.: GR-5 Issue Date: MARCH 1990 Sheet No.: 1 of 1</b>
<b>PVSC ENGINEERING STANDARD</b>	<b>TITLE NLGI – 2 Low Base Oil Viscosity Grease</b>
<b>Purpose/Objective: Procurement Specification; Lubricant</b>	
<b>Description:</b>	
	<b>PVSC Stock Number(s): 400 Lb. – 0193050 35 Lb., 120 Lb. containers</b>
<b>Color</b>	<b>Amber</b>
<b>Dropping Point, Deg. F</b>	<b>365</b>
<b>Penetration, worked 60 strokes</b>	<b>287</b>
<b>Oxidation Test, 100 hrs. at 210 Deg. F, psi Drop</b>	<b>6</b>
<b>Rust Prevention Rating</b>	<b>1</b>
<b>Oil Viscosity</b>	
<b>cSt at 40 Deg. C</b>	<b>100</b>
<b>Manufacturers of lubricants to this specification must be “REGISTERED” to the ISO 9000 (or higher) standard as established by the International Organization for Standardization.</b>	
<b>Notes:</b>	
<b>Conforming Commercial Products:</b>	
<b>Shell Gadus S2 V100 2</b>	
<b>Used on (PVSC Equipment):</b>	
<b>Prepared by: KB/FG Date: March 1990</b>	<b>Revisions:</b> <b>EWD – Jan. 1997 – Added 35 Lb. JAN 1999 – Added ISO 9000 requirement Jan 2003 – Revised Performance Requirements MARCH 2024 – added 120 Lb. container</b>
<small>2010 PVSC Spec/lzf</small>	

<b>11910.5 Lubricant Specification</b>			
<b>PASSAIC VALLEY SEWERAGE COMMISSION  PLANT ENGINEERING DEPARTMENT  600 Wilson Avenue, Newark, NJ 07105</b>		<b>Spec. No.: GR-6  Issue Date: MARCH 1990  Sheet No.: 1 of 1</b>	
<b>PVSC ENGINEERING  STANDARD</b>		<b>TITLE NLGI – 3  Multi-Purpose Grease</b>	
<b>Purpose/Objective: Procurement Specification; Lubricant</b>			
<b>Description:</b>			
		<b>PVSC Stock Number(s): 120 Lb. –</b>	
<b>ISO Viscosity</b>		<b>220</b>	
<b>Soap Type</b>		<b>Lithium Complex</b>	
<b>Penetration @ 77 Deg. F, worked</b>		<b>235</b>	
<b>Struct:</b>		<b>Smooth</b>	
<b>Mineral Oil Base Viscosity</b>			
<b>cSt at 40 Deg. C</b>		<b>220</b>	
<b>cSt at 100 Deg. C</b>		<b>13</b>	
<b>Drop Point</b>		<b>475 Deg. F</b>	
<b>Corrosion Prevention (ASTM D 1743)</b>		<b>Pass</b>	
<p>Manufacturers of lubricants to this specification must be “REGISTERED” to the ISO 9000 (or higher) standard as established by the International Organization for Standardization.</p>			
<b>Notes:</b>			
<b>Conforming Commercial Products:</b>			
<b>Mobilgrease XHP 223 (103393)</b>			
<b>Used on (PVSC Equipment):</b>			
<b>Prepared by: KB/FG  Date: March 1990</b>		<b>Revisions:  JAN 1999 – Added ISO 9000 requirement  Jan 2003 – Revised Performance Requirements  MARCH 2015 - Revised</b>	
<small>2010 PVSC Spec/lzf</small>			

**11910.5 Lubricant Specification**

**PASSAIC VALLEY SEWERAGE COMMISSION  
PLANT ENGINEERING DEPARTMENT  
600 Wilson Avenue, Newark, NJ 07105**

**Spec. No.: GR-7  
Issue Date: MARCH 1990  
Sheet No.: 1 of 1**

# PVSC ENGINEERING STANDARD

**TITLE NLGI – 3  
Low Base Oil Viscosity Grease**

**Purpose/Objective: Procurement Specification; Lubricant**

**Description:**

**PVSC Stock Number(s): 120 Lb.**

<b>Color</b>	<b>Amber</b>
<b>Dropping Point, Deg. F</b>	<b>370</b>
<b>Penetration, worked 60 strokes</b>	<b>238</b>
<b>Oxidation Test, 100 hrs. at 210 Deg. F, psi Drop</b>	<b>5</b>
<b>Rust Prevention Rating</b>	<b>1</b>
<b>Oil Viscosity</b>	
<b>cSt at 40 Deg. C</b>	<b>100</b>

**Manufacturers of lubricants to this specification must be “REGISTERED” to the ISO 9000 (or higher) standard as established by the International Organization for Standardization.**

**Notes:**

**Conforming Commercial Products:**

**Shell Gadus S2 V1003**

**Used on (PVSC Equipment):**

**Prepared by: KB/FG  
Date: March 1990**

**Revisions:**

**JAN 1999 – Added ISO 9000 requirement  
Jan 2003 – Revised Performance Requirements  
MARCH 2015 - Revised**

<b>11910.5 Lubricant Specification</b>	
<b>PASSAIC VALLEY SEWERAGE COMMISSION  PLANT ENGINEERING DEPARTMENT  600 Wilson Avenue, Newark, NJ 07105</b>	<b>Spec. No.: GR-8  Issue Date: MARCH 1990  Sheet No.: 1 of 1</b>
<b>PVSC ENGINEERING  STANDARD</b>	<b>TITLE NLGI – 0 EP  Lithium Soap EP Grease</b>
<b>Purpose/Objective: Procurement Specification; Lubricant</b>	
<b>Description:</b>	
	<b>PVSC Stock Number(s): 400 Lb. – 0193052  120 Lb.  35 Lb. - 0193060</b>
<b>Soap Type</b>	<b>Lithium 12 Hydroxy Stearate</b>
<b>Dropping Point, Deg. F</b>	<b>340-375</b>
<b>Penetration, worked 60 strokes</b>	<b>355-385</b>
<b>Bomb Oxidation, 100 hrs. at 210 Deg. F, psi  Drop</b>	<b>3-10</b>
<b>Timken OK Load, Lbs.</b>	<b>40-45</b>
<b>Base Oil Viscosity</b>	
<b>cSt at 40 Deg. C</b>	<b>220</b>
<b>cSt at 100 Deg. C</b>	<b>14-16</b>
<b>Rust Test (ASTM D 1743)</b>	<b>Pass</b>
<b>Manufacturers of lubricants to this specification must be “REGISTERED” to the ISO 9000 (or higher) standard as established by the International Organization for Standardization.</b>	
<b>Notes:</b>	
<b>Conforming Commercial Products:</b>	
<b>Shell Gadus S2-V220 0  Mobilux EP 0  Chevron Multifak EPO (Code 274501)</b>	
<b>Used on (PVSC Equipment):</b>	
<b>Prepared by: KB/FG  Date: March 1990</b>	<b>Revisions:  March 1990  2/26/91 – Note #1 Added  EWD – Jan. 1997 - Added 120 Lb. &amp; 25 Lb.  Deleted Color Reference Note #1  JAN 1999 – Added ISO 9000 requirement  Jan 2003 – Revised Performance Requirements and  Conforming Products  MARCH 2024 – added stock code for 35 lb.</b>
<b>2010 PVSC Spec/lzf</b>	

<b>11910.5 Lubricant Specification</b>	
<b>PASSAIC VALLEY SEWERAGE COMMISSION PLANT ENGINEERING DEPARTMENT 600 Wilson Avenue, Newark, NJ 07105</b>	<b>Spec. No.: GR-9 Issue Date: MARCH 1990 Sheet No.: 1 of 1</b>
<b>PVSC ENGINEERING STANDARD</b>	<b>TITLE NLGI – 1 EP Lithium Soap EP Grease</b>
<b>Purpose/Objective: Procurement Specification; Lubricant</b>	
<b>Description:</b>	
	<b>PVSC Stock Number(s): 5 Lb. Container – 0193059</b>
<b>Soap Type</b>	<b>Lithium 12 Hydroxy Stearate</b>
<b>Dropping Point, Deg. F</b>	<b>365-385</b>
<b>Penetration, worked 60 strokes</b>	<b>310-340</b>
<b>Bomb Oxidation, 100 hrs. at 210 Deg. F, psi Drop</b>	<b>3-10</b>
<b>Timken OK Load, Lbs.</b>	<b>40-45</b>
<b>Base Oil Viscosity</b>	
<b>cSt at 40 Deg. C</b>	<b>220</b>
<b>cSt at 100 Deg. C</b>	<b>14-18</b>
<b>Rust Test (ASTM D 1743)</b>	<b>Pass</b>
<b>Manufacturers of lubricants to this specification must be “REGISTERED” to the ISO 9000 (or higher) standard as established by the International Organization for Standardization.</b>	
<b>Notes:</b>	
<b>Conforming Commercial Products:</b>	
<b>Shell Gadus S2 V220 1</b>	
<b>Mobilux EP 1</b>	
<b>Chevron Multifax EPI (Code 274502)</b>	
<b>Used on (PVSC Equipment):</b>	
<b>Prepared by: KB/FG Date: March 1990</b>	<b>Revisions: EWD – Jan. 1997:     Deleted Stock No. 0193053     Added Stock No. 0193059 – 5 Lb. Container JAN 1999 – Added ISO 9000 requirement Jan 2003 – Revise Performance Requirements and Conforming Products MARCH 2015 - Revised</b>
<small>2010 PVSC Spec/lzf</small>	

<b>11910.5 Lubricant Specification</b>																			
<b>PASSAIC VALLEY SEWERAGE COMMISSION</b> <b>PLANT ENGINEERING DEPARTMENT</b> <b>600 Wilson Avenue, Newark, NJ 07105</b>	<b>Spec. No.: GR-10</b> <b>Issue Date: MARCH 1990</b> <b>Sheet No.: 1 of 1</b>																		
<b>PVSC ENGINEERING</b> <b>STANDARD</b>	<b>TITLE NLGI – 2 EP</b> <b>Lithium Soap EP Grease</b>																		
<b>Purpose/Objective: Procurement Specification; Lubricant</b>																			
<b>Description:</b> <div style="text-align: right;"> <b>PVSC Stock Number(s): 35 Lb. Drum – 0193057</b>  <b>120 Lb. Drum -</b>  <b>14-1/2 Oz. Cartridge</b> </div> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;"><b>Soap Type</b></td> <td style="width: 50%; text-align: right;"><b>Lithium 12 Hydroxy Stearate</b></td> </tr> <tr> <td><b>Dropping Point, Deg. F</b></td> <td style="text-align: right;"><b>365-385</b></td> </tr> <tr> <td><b>Penetration, worked 60 strokes</b></td> <td style="text-align: right;"><b>265-295</b></td> </tr> <tr> <td><b>Bomb Oxidation, 100 hrs. at 210 Deg. F, psi Drop</b></td> <td style="text-align: right;"><b>3-10</b></td> </tr> <tr> <td><b>Timken OK Load, Lbs.</b></td> <td style="text-align: right;"><b>40-45</b></td> </tr> <tr> <td><b>Base Oil Viscosity</b></td> <td></td> </tr> <tr> <td style="padding-left: 20px;"><b>cSt at 40 Deg. C</b></td> <td style="text-align: right;"><b>220</b></td> </tr> <tr> <td style="padding-left: 20px;"><b>cSt at 100 Deg. C</b></td> <td style="text-align: right;"><b>14-18</b></td> </tr> <tr> <td><b>Rust Test (ASTM D 1743)</b></td> <td style="text-align: right;"><b>Pass</b></td> </tr> </table> <p>Manufacturers of lubricants to this specification must be “REGISTERED” to the ISO 9000 (or higher) standard as established by the International Organization for Standardization.</p>		<b>Soap Type</b>	<b>Lithium 12 Hydroxy Stearate</b>	<b>Dropping Point, Deg. F</b>	<b>365-385</b>	<b>Penetration, worked 60 strokes</b>	<b>265-295</b>	<b>Bomb Oxidation, 100 hrs. at 210 Deg. F, psi Drop</b>	<b>3-10</b>	<b>Timken OK Load, Lbs.</b>	<b>40-45</b>	<b>Base Oil Viscosity</b>		<b>cSt at 40 Deg. C</b>	<b>220</b>	<b>cSt at 100 Deg. C</b>	<b>14-18</b>	<b>Rust Test (ASTM D 1743)</b>	<b>Pass</b>
<b>Soap Type</b>	<b>Lithium 12 Hydroxy Stearate</b>																		
<b>Dropping Point, Deg. F</b>	<b>365-385</b>																		
<b>Penetration, worked 60 strokes</b>	<b>265-295</b>																		
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<b>Base Oil Viscosity</b>																			
<b>cSt at 40 Deg. C</b>	<b>220</b>																		
<b>cSt at 100 Deg. C</b>	<b>14-18</b>																		
<b>Rust Test (ASTM D 1743)</b>	<b>Pass</b>																		
<b>Notes:</b> <b>Conforming Commercial Products:</b>  <b>Shell Gadus S2 V220 2</b> <b>Mobilux EP 2</b> <b>Chevron Multifak EP2 (Code 274503)</b>																			
<b>Used on (PVSC Equipment):</b>																			
<b>Prepared by: KB/FG</b> <b>Date: March 1990</b>	<b>Revisions:</b> <b>3/91 – Change in Stock Numbers</b> <b>EWD – Jan. 1997:</b> <div style="padding-left: 20px;"> <b>Changed Stock No. 0193055 to 0193057</b>  <b>Added 14-1/2 Oz. Cartridge</b> </div> <b>JAN 1999 – Added ISO 9000 requirement</b> <b>JAN 2003 – Revised Performance Requirements and Conforming Products</b> <b>MARCH 2024 – Deleted stock code</b>																		
<small>2010 PVSC Spec/lzf</small>																			

**11910.5 Lubricant Specification**

**PASSAIC VALLEY SEWERAGE COMMISSION  
PLANT ENGINEERING DEPARTMENT  
600 Wilson Avenue, Newark, NJ 07105**

**Spec. No.: GR-11  
Issue Date: MARCH 1990  
Sheet No.: 1 of 1**

**PVSC ENGINEERING  
STANDARD**

**TITLE NLGI – 0 EP  
Non-Soap EP Grease**

**Purpose/Objective: Procurement Specification; Lubricant**

**Description:**

**PVSC Stock Number(s): 400 Lbs.**

**Dropping Point, Deg. F > 500**

**Penetration, worked 60 strokes 355-390**

**Oil Viscosity**

**cSt at 100 Deg. C 10-12**

**Manufacturers of lubricants to this specification must be “REGISTERED” to the ISO 9000 (or higher) standard as established by the International Organization for Standardization.**

**Notes:****Conforming Commercial Products:**

**Lubriplate 930 AAA**

**Used on (PVSC Equipment):**

**Prepared by: KB/FG  
Date: March 1990**

**Revisions:**

**EWD – Jan. 1997:  
Deleted Stock No. 0193055  
Changed 440 Lbs. to 400 Lbs.  
JAN 1999 – Added ISO 9000 requirement  
Jan 2003 – Revised Performance Requirements and  
Conforming Products**

<b>11910.5 Lubricant Specification</b>	
<b>PASSAIC VALLEY SEWERAGE COMMISSION PLANT ENGINEERING DEPARTMENT 600 Wilson Avenue, Newark, NJ 07105</b>	<b>Spec. No.: GR-12 Issue Date: MARCH 1990 Sheet No.: 1 of 1</b>
<b>PVSC ENGINEERING STANDARD</b>	<b>TITLE NLGI – 1 EP Non-Soap EP Grease</b>
<b>Purpose/Objective: Procurement Specification; Lubricant</b>	
<b>Description:</b>	
	<b>PVSC Stock Number(s): 35 Lbs. - 0193055</b>
<b>Dropping Point, Deg. F</b>	<b>&gt; 500</b>
<b>Penetration, worked 60 strokes</b>	<b>310-340</b>
<b>Oil Viscosity</b>	
<b>cSt at 100 Deg. C</b>	<b>10-32</b>
<b>Manufacturers of lubricants to this specification must be “REGISTERED” to the ISO 9000 (or higher) standard as established by the International Organization for Standardization.</b>	
<b>Notes:</b>	
<b>Conforming Commercial Products:</b>	
Shell Gadus S2 V1000 1 ISO 1000 Lubriplate 930 AA ISO 135 Mobil Temp 78 (Product Code 64019-3) ISO 460	
<b>Used on (PVSC Equipment):</b>	
<b>Prepared by: KB/FG Date: March 1990</b>	<b>Revisions:</b> March 1990 EWD – Jan. 1997: Deleted 450 Lbs. Stock No. 0193056 Added 35 Lbs. Stock No. 0193055 JAN 1999 – Added ISO 9000 requirement Jan 2003 – Revised Performance Requirements and Conforming Products MARCH 2015 - Revised
2010 PVSC Spec/lzf	

<b>11910.5 Lubricant Specification</b>	
<b>PASSAIC VALLEY SEWERAGE COMMISSION PLANT ENGINEERING DEPARTMENT 600 Wilson Avenue, Newark, NJ 07105</b>	<b>Spec. No.: GR-13 Issue Date: MARCH 1990 Sheet No.: 1 of 1</b>
<b>PVSC ENGINEERING STANDARD</b>	<b>TITLE NLGI – 2 EP Non-Soap EP Grease</b>
<b>Purpose/Objective: Procurement Specification; Lubricant</b>	
<b>Description:</b>	
	<b>PVSC Stock Number(s): 400 Lbs. – 0193086 120 Lbs. - 0193083</b>
<b>Dropping Point, Deg. F</b>	<b>&gt; 500</b>
<b>Penetration, worked 60 strokes</b>	<b>265-295</b>
<b>Oil Viscosity</b>	
<b>cSt at 100 Deg. C</b>	<b>10-12</b>
<b>Manufacturers of lubricants to this specification must be “REGISTERED” to the ISO 9000 (or higher) standard as established by the International Organization for Standardization.</b>	
<b>Notes:</b>	
<b>Conforming Commercial Products: Shell Gadus S2 V1000 2 Lubriplate 930-2</b>	
<b>Used on (PVSC Equipment):</b>	
<b>Prepared by: KB/FG Date: March 1990 Approved by: Date:</b>	<b>Revisions: March 1990 EWD – Jan. 1997-Deleted 450 Lbs. Stock No. 0193057 Added 400 Lbs. Stock No. 0193086 and 120 Lbs. Stock No. 0193083 JAN 1999 – Added ISO 9000 requirement Jan 2003 – Revised Performance Requirements MARCH 2015 - Revised</b>
<small>2010 PVSC Spec/lzf</small>	

**LUBRICATING OILS, INDUSTRIAL SPECIFICATIONS**

<b>PVSC SPEC NO.</b>	<b>DESCRIPTION</b>	<b>INDUSTRIAL / COMMERCIAL DESIGNATION</b>
LO-1-22	Light Flushing Oil	SAE 10
LO-3-32	Hydraulic Oil	
LO-4-46	General Purpose Gear Oil	AGMA 1
LO-5-68	General Purpose Gear Oil	AGMA 2
LO-6-100	General Purpose Gear Oil	AGMA 3
LO-7-150	General Purpose Gear Oil	AGMA 4
LO-8-220	General Purpose Gear Oil	AGMA 5
LO-14-150EP	General Purpose EP Gear Oil	AGMA 4 EP
LO-15-220EP	General Purpose EP Gear Oil	AGMA 5 EP
LO-16-320EP	General Purpose EP Gear Oil	AGMA 6 EP
LO-17-460EP	General Purpose EP Gear Oil	AGMA 7 EP
LO-18-680EP	General Purpose EP Gear Oil	AGMA 8 EP
LO-19-460C	Compounded Gear Oil	AGMA 7 (COMP)
LO-20-100EP	General Purpose EP Gear Oil	AGMA 3 EP
LO-21-460EP	General Purpose EP Gear Oil	AGMA 9005-F15
LO-22-680EP	General Purpose EP Gear Oil	AGMA 9005-E02-EP
LO-23-32	Hydraulic Oil	AGMA 32

<b>11910.5 Lubricant Specification</b>			
<b>PASSAIC VALLEY SEWERAGE COMMISSION</b> <b>PLANT ENGINEERING DEPARTMENT</b> <b>600 Wilson Avenue, Newark, NJ 07105</b>		<b>Spec. No.:</b> LO-1-22 <b>Issue Date:</b> MARCH 1990 <b>Sheet No.:</b> 1 of 1	
<b>PVSC ENGINEERING</b> <b>STANDARD</b>		<b>TITLE</b> Light Flushing Oil (SAE10)	
<b>Purpose/Objective:</b> Procurement Specification; Lubricant			
<b>Description:</b>			
		<b>PVSC Stock Number(s)</b> - 0193001 55 Gal.	
ISO Viscosity		22	
Viscosity Index		95	
Pour Point		-15	Deg. F
Flash Point		335	Deg. F
<b>Viscosity</b>			
cSt at 40 Deg. C		20	
cSt at 100 Deg. C		3.8	
<b>Rust ASTM D665:</b>		-	
<b>Medium Viscosity Neutral Oils (No Additives)</b>			
Manufacturers of lubricants to this specification must be "REGISTERED" to the ISO 9000 (or higher) standard as established by the International Organization for Standardization.			
<b>Notes:</b>			
<b>Conforming Commercial Products:</b>			
Shell Base Stock Oil – M.V.I. - 100 Neutral Code #100 EXXON - Americas Core 100 B.P. - Energol - HL 22			
<b>Used on (PVSC Equipment):</b>			
<b>Prepared by:</b> KB/FG <b>Date:</b> FEB 1985		<b>Revisions:</b> November 3, 1986 March 1990 Jan. 1999 – Added ISO 9000 requirement Jan 2003 – Revised Conforming Products	
2010 PVSC Spec/lzf			

11910.5 Lubricant Specifications																																		
PASSAIC VALLEY SEWERAGE COMMISSION PLANT ENGINEERING DEPARTMENT 600 Wilson Avenue, Newark, NJ 07105	Spec. No.: Issue Date: Sheet No.:	LO-3-32 MAR 1990 1 of 1																																
<b>PVSC ENGINEERING STANDARD</b>	TITLE            Light Hydraulic Oil ISO-32																																	
<b>Purpose/Objective: Procurement Specification, Lubricant</b>																																		
<p><b>Description:</b></p> <p style="text-align: right;">PVSC Stock No. 0193003 Container Size: 55 Gal. Drum 5 Gal. 1,000 Gal. Bulk</p> <p>Light Hydraulic and Circulating Oil</p> <table border="0"> <tr> <td>ISO Viscosity:</td> <td>32</td> </tr> <tr> <td>Viscosity Index:</td> <td>95 – 108</td> </tr> <tr> <td>Pour Point</td> <td>&lt;20°F</td> </tr> <tr> <td>Flash Point</td> <td>&gt;400°F</td> </tr> <tr> <td>Neut. No.</td> <td>0.20 – 0.40</td> </tr> <tr> <td>Viscosity</td> <td></td> </tr> <tr> <td>    cSt @ 40°C</td> <td>30 – 32</td> </tr> <tr> <td>    cSt @ 100°C</td> <td>5 – 6</td> </tr> <tr> <td>API Gravity</td> <td>31</td> </tr> <tr> <td>Specific Gravity</td> <td>0.867</td> </tr> <tr> <td>Demulsibility, ASTM D-1401</td> <td>min to 0 ml emulsion at 54°C (130°F) after 30 min. at 82°C (180°F) after 1 hour</td> </tr> <tr> <td colspan="2">Rust &amp; Oxidation Inhibited</td> </tr> <tr> <td colspan="2">Anti-Wear &amp; Anti-Foam Additive</td> </tr> <tr> <td>Foam test ASTM D-892 Seq. II</td> <td>20/0</td> </tr> <tr> <td>ml foam at 0/10 minutes</td> <td></td> </tr> <tr> <td>Rust Protection ASTM D-665 A&amp;B</td> <td>Pass</td> </tr> </table> <p>The above specifications are typical and are intended to generally define the product. The product to this specification, LO-3-32, shall be Mobil DTE 24, Chevron Rando HD 32 or approved equal.</p> <p>Manufacturers of lubricants to this specification must be “REGISTERED” to the ISO 9000 (or higher) standard as established by the International Organization for Standardization.</p>			ISO Viscosity:	32	Viscosity Index:	95 – 108	Pour Point	<20°F	Flash Point	>400°F	Neut. No.	0.20 – 0.40	Viscosity		cSt @ 40°C	30 – 32	cSt @ 100°C	5 – 6	API Gravity	31	Specific Gravity	0.867	Demulsibility, ASTM D-1401	min to 0 ml emulsion at 54°C (130°F) after 30 min. at 82°C (180°F) after 1 hour	Rust & Oxidation Inhibited		Anti-Wear & Anti-Foam Additive		Foam test ASTM D-892 Seq. II	20/0	ml foam at 0/10 minutes		Rust Protection ASTM D-665 A&B	Pass
ISO Viscosity:	32																																	
Viscosity Index:	95 – 108																																	
Pour Point	<20°F																																	
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Rust & Oxidation Inhibited																																		
Anti-Wear & Anti-Foam Additive																																		
Foam test ASTM D-892 Seq. II	20/0																																	
ml foam at 0/10 minutes																																		
Rust Protection ASTM D-665 A&B	Pass																																	
<p><b>Notes:</b></p> <p>A vendor offering a product it represents is “equal” to those specified shall provide with its bid sufficient technical information and test data to show that the alternative product meets as a minimum the above specifications. PVSC reserves the right to request additional technical and/or quality control data to insure contract compliance.</p>																																		
<b>Used on (PVSC Equipment, Principal Usage): Hydraulic Oil</b>																																		
Prepared by:            FG Date:            MAR 1990	<b>Revisions:</b> Jan. 1999 – Added ISO 9000 requirement Jan 2003 – Revised Performance Requirements and Conforming Products MAR 2024 added 2 container sizes																																	
2010 PVSC Spec/lzf																																		

11910.5 Lubricant Specifications

PASSAIC VALLEY SEWERAGE COMMISSION PLANT ENGINEERING DEPARTMENT 600 Wilson Avenue, Newark, NJ 07105	Spec. No.:	LO-4-46
	Issue Date:	MAR 1990
	Sheet No.:	1 of 1

<b>PVSC ENGINEERING STANDARD</b>	TITLE      Light Hydraulic and Circulating Oil ISO-46
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Purpose/Objective: Procurement Specification, Lubricant

Description:

PVSC Stock No. 0193004  
Container Size: 55 Gal. Drum

Light Hydraulic and Circulating Oil

ISO Viscosity:	46
Viscosity Index:	95 – 105
Pour Point	<20°F
Flash Point	>400°F
Neut. No.	0.20 – 0.40
Viscosity	
cSt @ 40°C	42 – 47
cSt @ 100°C	6 – 7
API Gravity	29.5-31.8
Specific Gravity	0.873
Demulsibility, ASTM D-1401	min to 0 ml emulsion at 54°C (130°F) after 30 min. at 82°C (180°F) after 1 hour
Rust & Oxidation Inhibited	
Anti-Wear & Anti-Foam Additive	
Foam test ASTM D-892 Seq. II	20/0
ml foam at 0/10 minutes	
Rust Protection ASTM D-665 A&B	Pass

The above specifications are typical and are intended to generally define the product. The product to this specification, LO-4-46, shall be Mobil DTE 25 Medium, Chevron Rando HD 46 or approved equal.

Manufacturers of lubricants to this specification must be "REGISTERED" to the ISO 9000 (or higher) standard as established by the International Organization for Standardization.

Notes:

A vendor offering a product it represents is "equal" to those specified shall provide with its bid sufficient technical information and test data to show that the alternative product meets as a minimum the above specifications. PVSC reserves the right to request additional technical and/or quality control data to insure contract compliance.

Used on (PVSC Equipment, Principal Usage):

Miscellaneous rotating machinery and anti-friction bearings

Prepared by:      FG Date:                MAR 1990	Revisions: 3/10/98 – Additions Made to Description Jan. 1999 – Added ISO 9000 requirement Jan 2003 – Revised Performance Requirements and Conforming Products
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<b>11910.5 Lubricant Specifications</b>			
<b>PASSAIC VALLEY SEWERAGE COMMISSION</b> <b>PLANT ENGINEERING DEPARTMENT</b> <b>600 Wilson Avenue, Newark, NJ 07105</b>		<b>Spec. No.:</b> LO-5-68 <b>Issue Date:</b> MAR 1990 <b>Sheet No.:</b> 1 of 1	
<b>PVSC ENGINEERING STANDARD</b>		<b>TITLE</b> General Purpose Gear Oil ISO-68	
<b>Purpose/Objective:</b> Procurement Specification, Lubricant			
<b>Description:</b>			
			<b>PVSC Stock No. 0193005</b> <b>Container Size: 55 Gal. Drum</b>
<b>General Purpose Gear Oil</b>			
ISO Viscosity:		68	
Viscosity Index:		95 – 108	
Pour Point		<20°F	
Flash Point		>400°F	
Neut. No.		0.20 – 0.40	
<b>Viscosity</b>			
cSt @ 40°C		61 – 68	
cSt @ 100°C		8 - 9	
API Gravity		28.5-31.6	
Specific Gravity		0.877	
Demulsibility, ASTM D-1401		min to 0 ml emulsion at 54°C (130°F) after 30 min. at 82°C (180°F) after 1 hour	
<b>Rust &amp; Oxidation Inhibited</b>			
<b>Anti-Wear &amp; Anti-Foam Additive</b>			
Foam test ASTM D-892 Seq. II		30/10	
ml foam at 0/10 minutes			
Rust Protection ASTM D-665 A&B		Pass	
<p>The above specifications are typical and are intended to generally define the product. The product to this specification, LO-5-68, shall be Mobil DTE 26, Chevron Rando HD 68 or approved equal. Manufacturers of lubricants to this specification must be "REGISTERED" to the ISO 9000 (or higher) standard as established by the International Organization for Standardization.</p>			
<b>Notes:</b>			
<p>A vendor offering a product it represents is "equal" to those specified shall provide with its bid sufficient technical information and test data to show that the alternative product meets as a minimum the above specifications. PVSC reserves the right to request additional technical and/or quality control data to insure contract compliance.</p>			
<b>Used on (PVSC Equipment, Principal Usage):</b>			
<b>Miscellaneous rotating machinery and anti-friction bearings</b>			
<b>Prepared by:</b> FG <b>Date:</b> MAR 1990		<b>Revisions:</b> 3/10/98 – Additions Made to Description Jan. 1999 – Added ISO 9000 requirement Jan 2003 – Revised Performance Requirements and Conforming Products <b>MARCH 2015 - Revised</b>	
<small>2010 PVSC Spec/lzf</small>			

<b>11910.5 Lubricant Specifications</b>			
<b>PASSAIC VALLEY SEWERAGE COMMISSION</b> <b>PLANT ENGINEERING DEPARTMENT</b> 600 Wilson Avenue, Newark, NJ 07105		<b>Spec. No.:</b> LO-6-100 <b>Issue Date:</b> MAR 1990 <b>Sheet No.:</b> 1 of 1	
<b>PVSC ENGINEERING</b> <b>STANDARD</b>		<b>TITLE</b> General Purpose Gear Oil ISO-100	
<b>Purpose/Objective:</b> Procurement Specification, Lubricant			
<b>Description:</b>			
			<b>PVSC Stock No. 0193006</b> <b>Container Size: 55 Gal. Drum</b>
<b>General Purpose Gear Oil</b>			
ISO Viscosity:		100	
Viscosity Index:		95 – 108	
Pour Point		<20°F	
Flash Point		>410° F	
Neut. No.		0.20 – 0.40	
<b>Viscosity</b>			
cSt @ 40°C		90 – 100	
cSt @ 100°C		10 – 12	
API Gravity		27.5-30.1	
Specific Gravity		0.881	
Demulsibility, ASTM D-1401		min to 0 ml emulsion at 54°C (130°F) after 30 min. at 82°C (180°F) after 1 hour	
<b>Rust &amp; Oxidation Inhibited</b>			
<b>Anti-Wear &amp; Anti-Foam Additive</b>			
Foam test ASTM D-892 Seq. II		30/0	
ml foam at 0/10 minutes			
Rust Protection ASTM D-665 A&B		Pass	
<p>The above specifications are typical and are intended to generally define the product. The product to this specification, LO-6-100, shall be Mobil DTE Heavy, Chevron Regal R+O 100 or approved equal. Manufacturers of lubricants to this specification must be “REGISTERED” to the ISO 9000 (or higher) standard as established by the International Organization for Standardization.</p>			
<b>Notes:</b>			
<p>A vendor offering a product it represents is “equal” to those specified shall provide with its bid sufficient technical information and test data to show that the alternative product meets as a minimum the above specifications. PVSC reserves the right to request additional technical and/or quality control data to insure contract compliance.</p>			
<b>Used on (PVSC Equipment, Principal Usage):</b>			
<b>Miscellaneous rotating machinery and anti-friction bearings</b>			
<b>Prepared by:</b> FG <b>Date:</b> MAR 1990		<b>Revisions:</b> 3/10/98 – Additions Made to Description JAN. 1999 – Added ISO 9000 requirement Jan 2003 – Revised Performance Requirements and Conforming Products MARCH 2015 - Revised	
<small>2010 PVSC Spec/lzf</small>			

<b>11910.5 Lubricant Specifications</b>	
<b>PASSAIC VALLEY SEWERAGE COMMISSION PLANT ENGINEERING DEPARTMENT 600 Wilson Avenue, Newark, NJ 07105</b>	<b>Spec. No.: LO-7-150 Issue Date: MAR 1990 Sheet No.: 1 of 1</b>
<b>PVSC ENGINEERING STANDARD</b>	<b>TITLE: General Purpose Gear Oil ISO-150</b>
<b>Purpose/Objective: Procurement Specification, Lubricant</b>	
<b>Description:</b>	
	<b>PVSC Stock No. 0193007 55. Gallon Drum 0193009 5 Gallon Container</b>
<b>General Purpose Gear Oil</b>	
<b>ISO Viscosity:</b>	<b>150</b>
<b>Viscosity Index:</b>	<b>88 – 97</b>
<b>Pour Point</b>	<b>&lt;25°F</b>
<b>Flash Point</b>	<b>&gt;440°F</b>
<b>Neut. No.</b>	<b>0.40 – 1.2</b>
<b>Viscosity</b>	
<b>cSt @ 40°C</b>	<b>140 – 157.5</b>
<b>cSt @ 100°C</b>	<b>14.0-14.7</b>
<b>API Gravity</b>	<b>26.5-29.7</b>
<b>Specific Gravity</b>	<b>0.887</b>
<b>Demulsibility, ASTM D-1401</b>	<b>min to 0 ml emulsion at 54°C (130°F) after 30 min. at 82°C (180°F) after 1 hour</b>
<b>Rust &amp; Oxidation Inhibited</b>	
<b>Anti-Wear &amp; Anti-Foam Additive</b>	
<b>Foam test ASTM D-892 Seq. II ml foam at 0/10 minutes</b>	<b>30/0</b>
<b>Rust Protection ASTM D-665 A&amp;B</b>	<b>Pass</b>
<p>The above specifications are typical and are intended to generally define the product. The product to this specification, LO-7-150, shall be Mobil DTE Extra Heavy, Chevron Regal R+O 150, or approved equal.</p>	
<p>Manufacturers of lubricants to this specification must be “REGISTERED” to the ISO 9000 (or higher) standard as established by the International Organization for Standardization.</p>	
<b>Notes:</b>	
<p>A vendor offering a product it represents is “equal” to those specified shall provide with its bid sufficient technical information and test data to show that the alternative product meets as a minimum the above specifications. PVSC reserves the right to request additional technical and/or quality control data to insure contract compliance.</p>	
<b>Used on (PVSC Equipment, Principal Usage):</b>	
<b>Gear reduction units</b>	
<b>Prepared by: FG Date: MAR 1990</b>	<b>Revisions: 3/10/98 – Additions Made to Description JAN. 1999 – Added ISO 9000 requirement Jan 2003 – Revised Performance Requirements and Conforming Products MARCH 2015 - Revised</b>
<small>2010 PVSC Spec/lzf</small>	

<b>11910.5 Lubricant Specifications</b>			
<b>PASSAIC VALLEY SEWERAGE COMMISSION</b> <b>PLANT ENGINEERING DEPARTMENT</b> <b>600 Wilson Avenue, Newark, NJ 07105</b>		<b>Spec. No.:</b> LO-8-220 <b>Issue Date:</b> MAR 1990 <b>Sheet No.:</b> 1 of 1	
<b>PVSC ENGINEERING STANDARD</b>		<b>TITLE</b> General Purpose Gear Oil ISO-220	
<b>Purpose/Objective:</b> Procurement Specification, Lubricant			
<b>Description:</b>			
<b>PVSC Stock No. 0193008 Container Size: 55 Gal. Drum 5 Gal. Container</b>			
<b>General Purpose Gear Oil</b>			
ISO Viscosity:		220	
Viscosity Index:		90-96	
Pour Point		<25°F	
Flash Point		>440°F	
Neut. No.		-1.2	
<b>Viscosity</b>			
cSt @ 40°C		209 – 230	
cSt @ 100°C		18 – 20	
API Gravity		26-28.5	
Specific Gravity		0.890	
Demulsibility, ASTM D-1401		min to 0 ml emulsion at 54°C (130°F) after 30 min. at 82°C (180°F) after 1 hour	
<b>Rust &amp; Oxidation Inhibited</b>			
<b>Anti-Wear &amp; Anti-Foam Additive</b>			
Foam test ASTM D-892 Seq. II		0/0	
ml foam at 0/10 minutes			
Rust Protection ASTM D-665 A&B		Pass	
<p>The above specifications are typical and are intended to generally define the product. The product to this specification, LO-8-220, shall be Mobil DTE BB, Chevron Regal R+O 220, or approved equal.</p> <p>Manufacturers of lubricants to this specification must be "REGISTERED" to the ISO 9000 (or higher) standard as established by the International Organization for Standardization.</p>			
<b>Notes:</b>			
<p>A vendor offering a product it represents is "equal" to those specified shall provide with its bid sufficient technical information and test data to show that the alternative product meets as a minimum the above specifications. PVSC reserves the right to request additional technical and/or quality control data to insure contract compliance.</p>			
<b>Used on (PVSC Equipment, Principal Usage):</b>			
<b>Gear reduction units</b>			
<b>Prepared by:</b> FG <b>Date:</b> MAR 1990		<b>Revisions:</b> 3/10/98 – Additions Made to Description JAN. 1999 – Added ISO 9000 requirement Jan 2003 – Revised Performance Requirements and Conforming Products MARCH 2015 - Revised	
2010 PVSC Spec/al			

<b>11910.5 Lubricant Specifications</b>	
<b>PASSAIC VALLEY SEWERAGE COMMISSION</b> PLANT ENGINEERING DEPARTMENT 600 Wilson Avenue, Newark, NJ 07105	Spec. No.: LO-14-150 EP Issue Date: MAR 1990 Sheet No.: 1 of 1
<b>PVSC ENGINEERING STANDARD</b>	TITLE General Purpose Extreme Pressure Gear Oil
Purpose/Objective: Procurement Specification, Lubricant	
Description:	
PVSC Stock No. 0193014 Container Size: 400 lb. Drum (55 Gal.)	
<b><u>Extreme Pressure Gear Oil</u></b>	
AGMA Grade	4 EP
ISO Viscosity:	150 EP
Viscosity Index:	95-102
Pour Point	-25 <sup>o</sup> F – - 10 <sup>o</sup> F
Flash Point	410 <sup>o</sup> – 464 <sup>o</sup> F
Viscosity	
cSt @ 40 <sup>o</sup> C	141 - 159
cSt @ 100 <sup>o</sup> C	14 – 19
API Gravity	27 – 29.7
Copper Corrosion @ 212 <sup>o</sup> F ASTM D-130	1
Demulsibility, ASTM D-2711	
Free Water, ml	85 – 88
Emulsion, ml	Trace
Timken load test, lbs. ASTM D-2872	60-65
FZG Passed Stage ASTM D-5182	12
Four-Ball EP ASTM D-2783	
Load Wear Index, kgf	45-47
Weld Point, kgf	250
Foam test ASTM D-892 Seq. II	trace / 0
ml foam at 0/10 minutes	
Rust Protection ASTM D-665 A&B	Pass
The above specifications are typical and are intended to generally define the product. The product to this specification, LO-14-150 EP, shall be Mobil Spartan Ep 150, Shell Omala S2 G150, Chevron Meropa 150 or approved equal.	
Manufacturers of lubricants to this specification must be “REGISTERED” to the ISO 9000 (or higher) standard as established by the International Organization for Standardization.	
Notes:	
A vendor offering a product it represents is “equal” to those specified shall provide with its bid sufficient technical information and test data to show that the alternative product meets as a minimum the above specifications. PVSC reserves the right to request additional technical and/or quality control data to insure contract compliance.	
Used on (PVSC Equipment, Principal Usage): Gear reduction units	
Prepared by: FG Date: MAR 1990	Revisions: 3/11/98 – Additions Made to Description JAN 1999 – Added ISO 9000 requirement Jan 2003 – Revised Performance Requirements and Conforming Products MARCH 2015 - Revised
2010 PVSC Spec/lzf	

11910.5 Lubricant Specifications

PASSAIC VALLEY SEWERAGE COMMISSION  
 PLANT ENGINEERING DEPARTMENT  
 600 Wilson Avenue, Newark, NJ 07105

Spec. No.: LO-15-220 EP  
 Issue Date: MARCH 2011  
 Sheet No.: 1 of 1

**PVSC ENGINEERING  
 STANDARD**

TITLE General Purpose Extreme Pressure  
 Gear Oil

Purpose/Objective: Procurement Specification, Lubricant

Description:

PVSC Stock No. 0193015  
 Container Size: 400lb. Drum (55 Gal.)  
 35lb. Pail (5 Gal.)

Extreme Pressure Gear Oil

AGMA Grade	5 EP
ISO Viscosity:	220 EP
Viscosity Index:	95 – 100
Pour Point	-10°F – 0°F
Flash Point	420° – 475°F
Viscosity	
cSt @ 40°C	209 – 220
cSt @ 100°C	18 – 19
API Gravity	27-28.5
Copper Corrosion @ 212°F ASTM D-130	1
Demulsibility, ASTM D-2711	
Free Water, ml	83 – 90
Emulsion, ml	Trace
Timken load test, lbs. ASTM D-2872	60-65
FZG Passed Stage ASTM D-5182	12
Four-Ball EP ASTM D-2783	
Load Wear Index, kgf	45-46
Weld Point, kgf	250
Foam test ASTM D-892 Seq. II	trace / 0
ml foam at 0/10 minutes	
Rust Protection ASTM D-665 A&B	Pass

The above specifications are typical and are intended to generally define the product. Hydraulic Oil to this specification, LO-15-220 EP, shall be Mobil Gear 630, Shell Omala 220, Chevron Meropa 220 or approved equal.

Manufacturers of lubricants to this specification must be “REGISTERED” to the ISO 9000 (or higher) standard as established by the International Organization for Standardization.

Notes:

A vendor offering a product it represents is “equal” to those specified shall provide with its bid sufficient technical information and test data to show that the alternative product meets as a minimum the above specifications. PVSC reserves the right to request additional technical and/or quality control data to insure contract compliance.

Used on (PVSC Equipment, Principal Usage):

Gear reduction units

Prepared by: FG  
 Date: MAR 1990

Revisions:  
 3/11/98 – Additions Made to Description  
 JAN 1999 – Added ISO 9000 requirement  
 Jan 2003 – Revised Performance Requirements

11910.5 Lubricant Specifications

PASSAIC VALLEY SEWERAGE COMMISSION  
 PLANT ENGINEERING DEPARTMENT  
 600 Wilson Avenue, Newark, NJ 07105

Spec. No.: LO-16-320 EP  
 Issue Date: MAR 1990  
 Sheet No.: 1 of 1

**PVSC ENGINEERING  
 STANDARD**

TITLE General Purpose Extreme Pressure  
 Gear Oil

Purpose/Objective: Procurement Specification, Lubricant

Description:

PVSC Stock No. 0193016  
 Container Size: 400 lb. Drum (55 Gal.)

Extreme Pressure Gear Oil

AGMA Grade	6 EP
ISO Viscosity:	320 EP
Viscosity Index:	95 – 98
Pour Point	-15°F – 0°F
Flash Point	450° – 475°F
Viscosity	
cSt @ 40°C	304 – 330
cSt @ 100°C	23 – 25
API Gravity	25 – 27.3
Copper Corrosion @ 212°F ASTM D-130	1
Demulsibility, ASTM D-2711	
Free Water, ml	83 – 90
Emulsion, ml	Trace
Timken load test, lbs. ASTM D-2872	60-65
FZG Passed Stage ASTM D-5182	12
Four-Ball EP ASTM D-2783	
Load Wear Index, kgf	45-46
Weld Point, kgf	250
Foam test ASTM D-892 Seq. II	trace / 0
ml foam at 0/10 minutes	
Rust Protection ASTM D-665 A&B	Pass

Hydraulic Oil to this specification, LO-16-320 EP, shall be Mobil Gear 632, Shell Omala 320, Chevron Meropa 320.

Manufacturers of lubricants to this specification must be “REGISTERED” to the ISO 9000 (or higher) standard as established by the International Organization for Standardization.

Notes:

(1) NO SUBSTITUTE WILL BE ACCEPTED

Used on (PVSC Equipment, Principal Usage):

Gear reduction units Return Waste Sludge Pump Station

Prepared by: FG  
 Date: MAR 1990

Revisions:  
 3/11/98 – Additions Made to Description  
 JAN 1999 – Added Note (1) and  
 ISO 9000 requirement  
 Jan 2003 – Revised Performance Requirements

**11910.5 Lubricant Specifications**

**PASSAIC VALLEY SEWERAGE COMMISSION  
PLANT ENGINEERING DEPARTMENT  
600 Wilson Avenue, Newark, NJ 07105**

**Spec. No.: LO-17-460 EP  
Issue Date: MAR 1990  
Sheet No.: 1 of 1**

**PVSC ENGINEERING  
STANDARD**

**TITLE General Purpose Extreme Pressure  
Gear Oil**

**Purpose/Objective: Procurement Specification, Lubricant**

**Description:**

**PVSC Stock No. 0193956  
Container Size: 35 lb. Drum (5 Gal.)**

**Extreme Pressure Gear Oil**

<b>AGMA Grade</b>	<b>7 EP</b>
<b>ISO Viscosity:</b>	<b>460 EP</b>
<b>Viscosity Index:</b>	<b>95 – 102</b>
<b>Pour Point</b>	<b>-10°F – +20°F</b>
<b>Flash Point</b>	<b>440 – 475°F</b>
<b>Viscosity</b>	
<b>cSt @ 40°C</b>	<b>437 – 460</b>
<b>cSt @ 100°C</b>	<b>29 – 33</b>
<b>API Gravity</b>	<b>24 – 29</b>
<b>Copper Corrosion @ 212°F ASTM D-130</b>	<b>1</b>
<b>Demulsibility, ASTM D-2711</b>	
<b>Free Water, ml</b>	<b>80 – 82</b>
<b>Emulsion, ml</b>	<b>trace</b>
<b>Timken load test, lbs. ASTM D-2872</b>	<b>60-65</b>
<b>FZG Passed Stage ASTM D-5182</b>	<b>12</b>
<b>Four-Ball EP ASTM D-2783</b>	
<b>Load Wear Index, kgf</b>	<b>45</b>
<b>Weld Point, kgf</b>	<b>250</b>
<b>Foam test ASTM D-892 Seq. II</b>	<b>trace / 0</b>
<b>ml foam at 0/10 minutes</b>	
<b>Rust Protection ASTM D-665 A&amp;B</b>	<b>Pass</b>

The above specifications are typical and are intended to generally define the product. The product to this specification, LO-17-460 EP, shall be Mobil Gear 634, Shell Omala 460, Chevron Meropa 460 or approved equal.

Manufacturers of lubricants to this specification must be “REGISTERED” to the ISO 9000 (or higher) standard as established by the International Organization for Standardization.

**Notes:**

A vendor offering a product it represents is “equal” to those specified shall provide with its bid sufficient technical information and test data to show that the alternative product meets as a minimum the above specifications. PVSC reserves the right to request additional technical and/or quality control data to insure contract compliance.

**Used on (PVSC Equipment, Principal Usage):**

**Gear reduction units**

**Prepared by: FG  
Date: MAR 1990**

**Revisions:  
3/11/98 – Additions Made to Description  
JAN 1999 – Added ISO 9000 requirement  
Jan 2003 – Revised Performance Requirements**

<b>11910.5 Lubricant Specifications</b>	
<b>PASSAIC VALLEY SEWERAGE COMMISSION</b>	<b>Spec. No.: LO-18-680 EP</b>
<b>PLANT ENGINEERING DEPARTMENT</b>	<b>Issue Date: MAR 1990</b>
<b>600 Wilson Avenue, Newark, NJ 07105</b>	<b>Sheet No.: 1 of 1</b>
<b>PVSC ENGINEERING STANDARD</b>	<b>TITLE General Purpose Extreme Pressure Gear Oil</b>
<b>Purpose/Objective: Procurement Specification, Lubricant</b>	
<b>Description:</b>	
	<b>PVSC Stock Number(s):</b>
	<b>400 Lb. Drum (55 Gal.) - 0193018</b>
	<b>35 lb. Drum (5 Gal.) - 0193013</b>
<b><u>Extreme Pressure Gear Oil</u></b>	
<b>AGMA Grade</b>	<b>8 EP</b>
<b>ISO Viscosity:</b>	<b>680 EP</b>
<b>Viscosity Index:</b>	<b>90 – 100</b>
<b>Pour Point</b>	<b>5°F – 20°F</b>
<b>Flash Point</b>	<b>450° – 475°F</b>
<b>Viscosity</b>	
<b>cSt @ 40°C</b>	<b>645 – 700</b>
<b>cSt @ 100°C</b>	<b>37 – 41</b>
<b>API Gravity</b>	<b>25 – 26</b>
<b>Copper Corrosion @ 212°F ASTM D-130</b>	<b>1</b>
<b>Demulsibility, ASTM D-2711</b>	
<b>Free Water, ml</b>	<b>82 – 87</b>
<b>Emulsion, ml</b>	<b>Trace</b>
<b>Timken load test, lbs. ASTM D-2872</b>	<b>60-65</b>
<b>FZG Passed Stage ASTM D-5182</b>	<b>12</b>
<b>Four-Ball EP ASTM D-2783</b>	
<b>Load Wear Index, kgf</b>	<b>45-48</b>
<b>Weld Point, kgf</b>	<b>250</b>
<b>Foam test ASTM D-892 Seq. II</b>	<b>trace / 0</b>
<b>ml foam at 0/10 minutes</b>	
<b>Rust Protection ASTM D-665 A&amp;B</b>	<b>Pass</b>
<p>The above specifications are typical and are intended to generally define the product. The product to this specification, LO-187-680 EP, shall be Mobil Gear 636, Shell Omala 680, Chevron Meropa 680 or approved equal.</p> <p>Manufacturers of lubricants to this specification must be “REGISTERED” to the ISO 9000 (or higher) standard as established by the International Organization for Standardization.</p>	
<b>Notes:</b>	
<p>A vendor offering a product it represents is “equal” to those specified shall provide with its bid sufficient technical information and test data to show that the alternative product meets as a minimum the above specifications. PVSC reserves the right to request additional technical and/or quality control data to insure contract compliance.</p>	
<b>Used on (PVSC Equipment, Principal Usage):</b>	
<b>Gear reduction units</b>	
<b>Prepared by: FG</b> <b>Date: MAR 1990</b>	<b>Revisions:</b> <b>3/11/98 – Additions Made to Description</b> <b>JAN 1999 – Added ISO 9000 requirement</b> <b>Jan 2003 – Revised Performance Requirements</b>
2010 PVSC Spec/lzf	

**11910.5 Lubricant Specifications**

**PASSAIC VALLEY SEWERAGE COMMISSION**  
**PLANT ENGINEERING DEPARTMENT**  
 600 Wilson Avenue, Newark, NJ 07105

**Spec. No.: LO-19-460C**  
**Issue Date: MARCH 1990**  
**Sheet No.: 1 of 1**

**PVSC ENGINEERING  
STANDARD**

**TITLE Compounded Gear Oil**

**Purpose/Objective: Procurement Specification; Lubricant**

**Description:**

**PVSC Stock Number(s) 35 Lb. Container (5 Gal.)**

**ISO Viscosity 460**  
**Viscosity Index 95 – 100**  
**Pour Point 10<sup>o</sup>F – 20<sup>o</sup>F**  
**Flash Point 500<sup>o</sup>F – 590<sup>o</sup>F**

**Viscosity**

**cSt at 40 Deg. C 435 - 465**  
**cSt at 100 Deg. C 30 – 32**

**AGMA Grade: 7 Comp**

**Manufacturers of lubricants to this specification must be “REGISTERED” to the ISO 9000 (or higher) standard as established by the International Organization for Standardization.**

**Notes:****Conforming Commercial Products:**

**Mobil 600W Super Cylinder Oil (Product Number 60121-1)**  
**Shell Omala S1 W460**

**Used on (PVSC Equipment):**

**Worm Gear Drive Unit FMC Trash Rake**

**Prepared by: KB/FG**  
**Date: FEB 1985**

**Revisions:**

**March 1990**  
**EWD – Jan. 1997 – Added (5 Gal.)**  
**JAN 1999 – Added ISO 9000 requirements**  
**Jan 2003 – Revised Performance Requirements and Conforming Products**  
**APRIL 2015 - Revised**

11910.5 Lubricant Specifications	
PASSAIC VALLEY SEWERAGE COMMISSION PLANT ENGINEERING DEPARTMENT 600 Wilson Avenue, Newark, NJ 07105	Spec. No.: LO-20-100 EP Issue Date: Jan. 2003 Sheet No.: 1 of 1
<b>PVSC ENGINEERING STANDARD</b>	TITLE General Purpose Extreme Pressure Gear Oil
Purpose/Objective: Procurement Specification, Lubricant	
Description:	
	PVSC Stock No. Container Size: 400 lb. Drum (55 Gal.)
<b><u>Extreme Pressure Gear Oil</u></b>	
AGMA Grade	3 EP
ISO Viscosity:	100 EP
Viscosity Index:	95-102
Pour Point	-25°F -- -10°F
Flash Point	405° – 440°F
Viscosity	
cSt @ 40°C	95 – 100
cSt @ 100°C	11 – 11.2
API Gravity	28 – 30.6
Copper Corrosion @ 212°F ASTM D-130	1
Demulsibility, ASTM D-2711	
Free Water, ml	85 – 88
Emulsion, ml	Trace
Timken load test, lbs. ASTM D-2872	60-65
FZG Passed Stage ASTM D-5182	12
Four-Ball EP ASTM D-2783	
Load Wear Index, kgf	45-47
Weld Point, kgf	250
Foam test ASTM D-892 Seq. II ml foam at 0/10 minutes	trace / 0
Rust Protection ASTM D-665 A&B	Pass
The above specifications are typical and are intended to generally define the product. The product to this specification, LO-20-100 EP, shall be Mobil Gear 627, Shell Omala 100, Chevron Meropa 100 or approved equal.	
Manufacturers of lubricants to this specification must be “REGISTERED” to the ISO 9000 (or higher) standard as established by the International Organization for Standardization.	
Notes:	
A vendor offering a product it represents is “equal” to those specified shall provide with its bid sufficient technical information and test data to show that the alternative product meets as a minimum the above specifications. PVSC reserves the right to request additional technical and/or quality control data to insure contract compliance.	
Used on (PVSC Equipment, Principal Usage):	
Prepared by: JB Date: Jan. 2003	Revisions:

**11910.5 Lubricant Specifications**

**PASSAIC VALLEY SEWERAGE COMMISSION  
PLANT ENGINEERING DEPARTMENT  
600 Wilson Avenue, Newark, NJ 07105**

**Spec. No.: LO-21-460 EP  
Issue Date: MARCH 2024  
Sheet No.: 1 of 1**

**PVSC ENGINEERING  
STANDARD**

**TITLE General Purpose Extreme Pressure  
Gear Oil**

**Purpose/Objective: Procurement Specification, Lubricant**

**Description:**

**PVSC Stock No.  
Container Size: Drum (55 Gal.)**

**Extreme Pressure Gear Oil**

**AGMA Grade 9005-F15  
ISO Viscosity: 460 EP  
Viscosity Index: 96  
Pour Point -15° C  
Flash Point 240° C  
Viscosity  
cSt @ 40° C 460  
cSt @ 100° C 30.6**

**Copper Corrosion @ 212° F ASTM D-130 1B  
Demulsibility, ASTM D-2711  
Emulsion, ml 30  
Timken load test, lbs. ASTM D-2872 65  
FZG Passed Stage ASTM D-5182 12+  
Four-Ball EP ASTM D-2783  
Load Wear Index, kgf 48  
Weld Point, kgf 250  
Foam test ASTM D-892 Seq. II 30 / 0  
  
Rust Protection ASTM D-665 A&B Pass**

**The above specifications are typical and are intended to generally define the product. Hydraulic Oil to this specification, LO-21-460 EP, shall be Mobil Gear XP 460 or approved equal. Manufacturers of lubricants to this specification must be "REGISTERED" to the ISO 9000 (or higher) standard as established by the International Organization for Standardization.**

**Notes:**

**A vendor offering a product it represents is "equal" to those specified shall provide with its bid sufficient technical information and test data to show that the alternative product meets as a minimum the above specifications. PVSC reserves the right to request additional technical and/or quality control data to ensure contract compliance.**

**Mobil 600 XP Series are extra high performance gear oils having outstanding extreme pressure characteristics and load carrying properties, intended for use in all types of enclosed gear drives with circulation or splash lubrication systems.**

**Used on (PVSC Equipment, Principal Usage):**

**Decant Storage Rake Drives**

**Prepared by: SMA  
Date: MAR 2024**

**Revisions:**

<b>11910.5 Lubricant Specifications</b>	
<b>PASSAIC VALLEY SEWERAGE COMMISSION</b> <b>PLANT ENGINEERING DEPARTMENT</b> <b>600 Wilson Avenue, Newark, NJ 07105</b>	<b>Spec. No.: LO-22-680 EP</b> <b>Issue Date: MARCH 2024</b> <b>Sheet No.: 1 of 1</b>
<b>PVSC ENGINEERING STANDARD</b>	<b>TITLE General Purpose Extreme Pressure Gear Oil</b>
<b>Purpose/Objective: Procurement Specification, Lubricant</b>	
<b>Description:</b>	
	<b>PVSC Stock No. 140000083</b> <b>Container Size: 5 Gal. pail</b>
<b><u>Extreme Pressure Gear Oil</u></b>	
<b>AGMA Grade</b>	<b>9005-E02-EP</b>
<b>ISO Viscosity:</b>	<b>680 EP</b>
<b>Viscosity Index:</b>	<b>151</b>
<b>Pour Point</b>	<b>-25° C</b>
<b>Flash Point</b>	<b>270° C</b>
<b>Viscosity</b>	
cSt @ 40°C	<b>671</b>
cSt @ 100°C	<b>48.4</b>
<b>API Gravity</b>	<b>25-26</b>
<b>Copper Corrosion @ 212°F ASTM D-130</b>	<b>1B</b>
<b>FZG, Load Stage</b>	<b>12</b>
<b>Specific Gravity</b>	<b>0.88</b>
<b>Rust Prevention</b>	<b>Pass</b>
<p>The above specifications are typical and are intended to generally define the product. Hydraulic Oil to this specification, LO-22-680 EP, shall be Chemlube 736 or approved equal. Manufacturers of lubricants to this specification must be "REGISTERED" to the ISO 9000 (or higher) standard as established by the International Organization for Standardization.</p>	
<b>Notes:</b>	
<p>A vendor offering a product it represents is "equal" to those specified shall provide with its bid sufficient technical information and test data to show that the alternative product meets as a minimum the above specifications. PVSC reserves the right to request additional technical and/or quality control data to ensure contract compliance.</p>	
<p>The Chemlube® 700 Series is full synthetic product line formulated with premium polyalphaolefins (PAO) base fluids, advanced designed for heavy duty gear and hydraulic applications. This series is recommended for gear drives and hydraulic systems where heavy loads, high temperatures and adverse conditions are expected.</p>	
<b>Used on (PVSC Equipment, Principal Usage):</b>	
<b>Gear reduction units</b>	
<b>Prepared by: SMA</b> <b>Date: MAR 2024</b>	<b>Revisions:</b>
<small>2010 PVSC Spec/lzf</small>	

**11910.5 Lubricant Specification**

PASSAIC VALLEY SEWERAGE COMMISSION  
 PLANT ENGINEERING DEPARTMENT  
 600 Wilson Avenue, Newark, NJ 07105

Spec. No.: LO-23-32  
 Issue Date: MAR 2024  
 Sheet No.: 1 of 1

# PVSC ENGINEERING STANDARD

TITLE Hydraulic Oil

Purpose/Objective: Procurement Specification; Lubricant

**Description:**

PVSC Stock Number(s) – Bulk Quantity (1000 Gal.)

ISO Viscosity	32	
Viscosity Index	98	
Pour Point	-24	Deg. C
Flash Point	212	Deg. C
<b>Viscosity</b>		
cSt at 40 Deg. C	31.4	
cSt at 100 Deg. C	5.3	
Rust ASTM D665:	Pass	
AGMA Grade:	ISO 32	

Manufacturers of lubricants to this specification must be “REGISTERED” to the ISO 9000 (or higher) standard as established by the International Organization for Standardization.

**Notes:**

**Conforming Commercial Products:**

Nuto™ H32 Series oils are good quality anti-wear hydraulic oils intended for industrial and mobile service applications, subjected to moderate operating conditions and requiring anti-wear lubricants. **No other product will be considered for this application.**

Used on (PVSC Equipment): High Pressure Pumps – Sludge Heat Treatment

Prepared by: SMA  
 Date: MAR 2024

**Revisions:**

**SEALANTS - PETROLEUM BASE SPECIFICATIONS**

<b>PVSC SPEC NO.</b>	<b>DESCRIPTION</b>	<b>INDUSTRIAL / COMMERCIAL DESIGNATION</b>
SE-5	Valve Sealant (Gum Stick)	Resun 62
SE-6	Valve Sealant (Can)	Resun 101
SE-7	Valve Sealant (Can)	Resun 375
SE-8	Valve Sealant	Nordstrom 234
SE-9	Valve Sealant	Nordstrom 1045
SE-10	Anti-Seize Paste	Molykote 1000

11910.5 Lubricant Specification

<p>PASSAIC VALLEY SEWERAGE COMMISSION          PLANT ENGINEERING DEPARTMENT          600 Wilson Avenue, Newark, NJ 07105</p>	<table border="0"> <tr> <td>Spec. No.:</td> <td>SE-5</td> </tr> <tr> <td>Issue Date:</td> <td>MARCH 1990</td> </tr> <tr> <td>Sheet No.:</td> <td>1 of 1</td> </tr> </table>	Spec. No.:	SE-5	Issue Date:	MARCH 1990	Sheet No.:	1 of 1
Spec. No.:	SE-5						
Issue Date:	MARCH 1990						
Sheet No.:	1 of 1						
<p><b>PVSC ENGINEERING STANDARD</b></p>	<p>TITLE                      Valve Sealant</p>						
<p>Purpose/Objective: Procurement Specification; Lubricant</p>							
<p>Description:</p> <p style="text-align: right;">PVSC Stock Number(s) – 0193089          Gun Stick – 4 per Box</p> <p><u>Plug Valve Sealant (“Gun” Stick per box of 4)</u></p> <p>Temperature Range    -15 to +250 Deg. F          Solvent (Softening) Mineral Oil          Solvent (Dissolving) Trichloroethylene          Color: Black</p> <p><u>Principal Services</u></p> <p>Natural and manufactured gas, air and non-corrosive gases, sewerage sludge and cold water.</p> <p><u>ISO 9000 Registration is waived for the Manufacturer of this product.</u></p>							
<p>Notes:</p> <p>Conforming Commercial Products:</p> <p style="text-align: center;">RESUN Plug Valve Sealant #62</p>							
<p>Used on (PVSC Equipment):</p>							
<p>Prepared by:              KB/FG          Date:                      March 1990</p>	<p>Revisions:</p> <p>EWD – Jan. 1997:          Added Stock No. and Gum Stick – 4 per Box          JAN 1999 – ISO 9000 waiver added</p>						

11910.5 Lubricant Specification

<p>PASSAIC VALLEY SEWERAGE COMMISSION          PLANT ENGINEERING DEPARTMENT          600 Wilson Avenue, Newark, NJ 07105</p>	<p>Spec. No.: SE-6          Issue Date: MARCH 1990          Sheet No.: 1 of 1</p>
<p><b>PVSC ENGINEERING STANDARD</b></p>	<p>TITLE Valve Sealant</p>
<p>Purpose/Objective: Procurement Specification; Lubricant</p>	
<p>Description:</p> <p style="text-align: right;">PVSC Stock Number(s) – 5 Gallon Container</p> <p><u>Plug Valve Sealant</u></p> <p>Temperature Range -60 to +450 Deg. F          Solvent (Softening) Silicone Oil          Solvent (Dissolving) Mineral Spirits          Color: White</p> <p><u>Principal Services</u></p> <p>Air and non-corrosive gases, hot water, steam, asphalt tar or pitch.</p> <p><u>ISO 9000 Registration is waived for the Manufacturer of this product.</u></p>	
<p>Notes:</p> <p>Conforming Commercial Products:</p> <p style="text-align: center;">RESUN Plug Valve Sealant #101</p>	
<p>Used on (PVSC Equipment):</p>	
<p>Prepared by: KB/FG          Date: March 1990</p>	<p>Revisions:</p> <p>JAN 1999 – ISO 9000 waiver added</p>

11910.5 Lubricant Specification

<p>PASSAIC VALLEY SEWERAGE COMMISSION          PLANT ENGINEERING DEPARTMENT          600 Wilson Avenue, Newark, NJ 07105</p>	<p>Spec. No.: SE-7          Issue Date: MARCH 1990          Sheet No.: 1 of 1</p>
<p><b>PVSC ENGINEERING STANDARD</b></p>	<p>TITLE Valve Sealant</p>
<p>Purpose/Objective: Procurement Specification; Lubricant</p>	
<p>Description:</p> <p style="text-align: right;">PVSC Stock Number(s) – 5 Gallon Container</p> <p><b><u>Plug Valve Sealant</u></b></p> <p>Temperature Range -15 to +250 Deg. F          Solvent (Softening) Mineral Oil          Solvent (Dissolving) Trichloroethylene          Color: Black</p> <p><b><u>Principal Services</u></b></p> <p>Extra soft lubricant for freeing hard operating valves on water and gas service. Resistant to water dilute acids and alkalies.</p> <p><b><u>ISO 9000 Registration is waived for the Manufacturer of this product.</u></b></p>	
<p>Notes:</p> <p>Conforming Commercial Products:</p> <p style="text-align: center;">RESUN Plug Valve Sealant #375</p>	
<p>Used on (PVSC Equipment):</p>	
<p>Prepared by: KB/FG          Date: March 1990          Approved by:          Date:</p>	<p>Revisions:</p> <p>JAN 1999 – ISO 9000 waiver added</p>

11910.5 Lubricant Specification

PASSAIC VALLEY SEWERAGE COMMISSION PLANT ENGINEERING DEPARTMENT 600 Wilson Avenue, Newark, NJ 07105	Spec. No.: SE-8 Issue Date: Jan 2003 Sheet No.: 1 of 1												
<p style="text-align: center;"><b>PVSC ENGINEERING STANDARD</b></p>	TITLE Valve Sealant												
Purpose/Objective: Procurement Specification; Lubricant													
<p><b>Description:</b></p> <p style="text-align: right;">PVSC Stock Number(s) – Gun Pack – 6 per Box</p> <table border="0" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; width: 30%;">Temperature Range</th> <th style="text-align: center; width: 20%;">Degree F</th> <th style="text-align: center; width: 20%;">Degree C</th> <th style="text-align: left; width: 30%;"><u>Color</u></th> </tr> </thead> <tbody> <tr> <td></td> <td style="text-align: center;"><u>From</u></td> <td style="text-align: center;"><u>To</u></td> <td></td> </tr> <tr> <td></td> <td style="text-align: center;">-40</td> <td style="text-align: center;">400</td> <td>White</td> </tr> </tbody> </table> <p><b><u>Principal Services</u></b></p> <p>A silicone sealant for hot air, hot water, steam, high vacuum, acetic acid anhydride, ethyl alcohol below 250°F, natural gas compressor discharge, food and pharmaceutical applications as determined by the user.</p> <p><b><u>Unsuitable for:</u></b></p> <p>Gasoline and light liquid hydrocarbons, strong mineral acids, aromatic and chlorinated solvents.</p> <p><b><u>ISO 9000 Registration is waived for the Manufacturer of this product.</u></b></p>		Temperature Range	Degree F	Degree C	<u>Color</u>		<u>From</u>	<u>To</u>			-40	400	White
Temperature Range	Degree F	Degree C	<u>Color</u>										
	<u>From</u>	<u>To</u>											
	-40	400	White										
<p><b>Notes:</b></p> <p><b>Conforming Commercial Products:</b></p> <p style="text-align: center;">Nordstrom Valve Sealant 234</p>													
<p><b>Used on (PVSC Equipment):</b></p>													
<p>Prepared by: JB Date: Jan 2003</p>	<p><b>Revisions:</b></p>												

**11910.5 Lubricant Specification**

<p><b>PASSAIC VALLEY SEWERAGE COMMISSION PLANT ENGINEERING DEPARTMENT 600 Wilson Avenue, Newark, NJ 07105</b></p>	<p><b>Spec. No.: SE-9 Issue Date: Jan 2003 Sheet No.: 1 of 1</b></p>
<p><b>PVSC ENGINEERING STANDARD</b></p>	<p><b>TITLE Valve Sealant</b></p>
<p><b>Purpose/Objective: Procurement Specification; Lubricant</b></p>	
<p><b>Description:</b> <b>PVSC Stock Number(s) – 5 Quart Container</b></p> <p><b><u>Valve Sealant</u></b></p> <p><b>Temperature Range -20 to +700 Deg. F</b></p> <p><b>Color: Black</b></p> <p><b><u>ISO 9000 Registration is waived for the Manufacturer of this product.</u></b></p>	
<p><b>Notes:</b></p> <p><b>Conforming Commercial Products:</b></p> <p><b>(1) Nordstrom Sealant #1045 (2) NO SUBSTITUTES WILL BE ACCEPTED</b></p>	
<p><b>Used on (PVSC Equipment): Inlet/Outlet Valves on Reactors in Sludge Heat Treatment</b></p>	
<p><b>Prepared by: JB Date: Jan 2003 Approved by: Date:</b></p>	<p><b>Revisions:</b></p>

**11910.5 Lubricant Specification**

<b>PASSAIC VALLEY SEWERAGE COMMISSION</b> <b>PLANT ENGINEERING DEPARTMENT</b> 600 Wilson Avenue, Newark, NJ 07105	<b>Spec. No.: SE-10</b> <b>Issue Date: Jan 2003</b> <b>Sheet No.: 1 of 1</b>												
<p align="center"><b>PVSC ENGINEERING STANDARD</b></p>	<b>TITLE</b> <b>Anti Seize Paste</b>												
<b>Purpose/Objective: Procurement Specification; Lubricant</b>													
<p><b>Description:</b></p> <table border="0"> <tr> <td></td> <td align="right"><b>PVSC Stock Number(s) – 1 Lb. Container</b></td> </tr> <tr> <td><b>Temperature Range, Degrees</b></td> <td align="right"><b>-22°F to 1202°F (-30°C to 650°C)</b></td> </tr> <tr> <td><b>Specific Gravity</b></td> <td align="right"><b>1.26</b></td> </tr> <tr> <td><b>Penetration (unworked)</b></td> <td align="right"><b>280-310</b></td> </tr> <tr> <td><b>Four Ball Wear Scar</b></td> <td align="right"><b>0.08mm</b></td> </tr> <tr> <td><b>Four Ball Weld Load</b></td> <td align="right"><b>4800N</b></td> </tr> </table> <p><b>Manufacturers of lubricants to this specification must be “Registered” to the ISO 9000 (or higher) standard as established by the International Organization for Standardization.</b></p> <p><b>Notes:</b>  <b>Conforming Commercial Products: Dow Corning Molykote 1000</b>  <b>NO SUBSTITUTES WILL BE ACCEPTED</b></p>			<b>PVSC Stock Number(s) – 1 Lb. Container</b>	<b>Temperature Range, Degrees</b>	<b>-22°F to 1202°F (-30°C to 650°C)</b>	<b>Specific Gravity</b>	<b>1.26</b>	<b>Penetration (unworked)</b>	<b>280-310</b>	<b>Four Ball Wear Scar</b>	<b>0.08mm</b>	<b>Four Ball Weld Load</b>	<b>4800N</b>
	<b>PVSC Stock Number(s) – 1 Lb. Container</b>												
<b>Temperature Range, Degrees</b>	<b>-22°F to 1202°F (-30°C to 650°C)</b>												
<b>Specific Gravity</b>	<b>1.26</b>												
<b>Penetration (unworked)</b>	<b>280-310</b>												
<b>Four Ball Wear Scar</b>	<b>0.08mm</b>												
<b>Four Ball Weld Load</b>	<b>4800N</b>												
<b>Used on (PVSC Equipment):</b>													
<b>Prepared by: JB</b> <b>Date: Jan 2003</b>	<b>Revisions:</b>												

**LUBRICATING OILS, SPECIAL PURPOSE SPECIFICATIONS**

<b>PVSC SPEC NO.</b>	<b>DESCRIPTION</b>	<b>INDUSTRIAL / COMMERCIAL DESIGNATION</b>
SP-1	Refrigeration Oil	
SP-2	Chain & Cable Spray Lubricant	
SP-3	Machine Cutting Oil	
SP-4	Vacuum Pump Oil	
SP-5	Soluble Oil	
SP-6	Dielectric Oil	
SP-7	Petroleum Solvent	
SP-8	Inhibited Insulating Oil	
SP-9	Two (2) Cycle Engine Oil	
SP-10	Low Temperature Hydraulic Oil	
SP-11	Hydraulic Oil	Shell Tellus 68
SP-12	Turbine Oil	Texaco Regal Oil R&O 32
SP-13	Vacuum Pump Oil	
SP-14	Synthetic Vacuum Pump Oil	Chevron Tegra 100
SP-15	Machine Tool Way Oil	Mobil Vactra No. 2
SP-16	Biodegradable Hydraulic Oil	ISO 46
SP-17	Premium Circulating Oil	ISO 320
SP-18	Thread Cutting Oil	RIDGID Nu-Clear Oil
SP-19	Air Tool Oil	ISO 46
SP-20	Hydraulic Oil	Shell Tellus 100
SP-21	Hydraulic Oil	Clarion Green AW 46

**11910.5 Lubricant Specification**

**PASSAIC VALLEY SEWERAGE COMMISSION  
PLANT ENGINEERING DEPARTMENT  
600 Wilson Avenue, Newark, NJ 07105**

**Spec. No.: SP-1  
Issue Date: MARCH 1990  
Sheet No.: 1 of 1**

**PVSC ENGINEERING  
STANDARD**

**TITLE Refrigeration Oil**

**Purpose/Objective: Procurement Specification; Lubricant**

**Description:**

**PVSC Stock Number(s) – 1 Gal. Container –**

<b>ISO Viscosity</b>	<b>32</b>	
<b>Viscosity Index</b>	<b>7.5</b>	
<b>Pour Point</b>	<b>-40</b>	<b>Deg. F</b>
<b>Flash Point</b>	<b>334</b>	<b>Deg. F</b>

**Viscosity**

<b>cSt at 40 Deg. C</b>	<b>29.5</b>
<b>cSt at 100 Deg. C</b>	<b>4.3</b>

**Refrigerate 12 Haza/Flox., of -55/-65 Max  
(Freon 1 Compatibility)**

**Manufacturers of lubricants to this specification must be “REGISTERED” to the ISO 9000 (or higher) standard as established by the International Organization for Standardization.**

**Notes:**

**Conforming Commercial Products:**

**Chevron Capella WF 32 (Code#273273) - NO SUBSTITUTES**

**Used on (PVSC Equipment):**

**Prepared by: KB/FG  
Date: MARCH 1990**

**Revisions:**

**JAN 1999 – Added ISO 9000 requirement  
Jan 2003 – Revised Performance Requirements and  
Conforming Products  
MAR 2024 – deleted stock code**

**11910.5 Lubricant Specification**

**PASSAIC VALLEY SEWERAGE COMMISSION  
PLANT ENGINEERING DEPARTMENT  
600 Wilson Avenue, Newark, NJ 07105**

**Spec. No.: SP-2  
Issue Date: MARCH 1990  
Sheet No.: 1 of 1**

**PVSC ENGINEERING  
STANDARD**

**TITLE Chain & Cable Spray Lubricant**

**Purpose/Objective: Procurement Specification; Lubricant**

**Description:**

**PVSC Stock Number(s) – 12 Oz. Container – 0193028**

**ISO Viscosity****Viscosity Index****Pour Point****-40 Deg. F****Flash Point****310 Deg. F****Viscosity****cSt at 40 Deg. C****30****cSt at 100 Deg. C****5****Rust ASTM D665:****AGMA Grade:****Fire Point Deg. F****350****Color****6-****Oxidation Stability****Excellent****Penetrating Qualities****Excellent****ISO Grade****32**

**Manufacturers of lubricants to this specification must be “REGISTERED” to the ISO 9000 (or higher) standard as established by the International Organization for Standardization.**

**Notes:****Conforming Commercial Products:**

**Lubriplate Chain & Cable Fluid**

**Used on (PVSC Equipment):**

**Prepared by: KB/FG  
Date: FEB 1985**

**Revisions:**

**EWD–Jan. 1997-Container size changed from 1 Gal.  
JAN 1999 – Added ISO 9000 requirement**

<b>11910.5 Lubricant Specification</b>																			
<b>PASSAIC VALLEY SEWERAGE COMMISSION</b> <b>PLANT ENGINEERING DEPARTMENT</b> <b>600 Wilson Avenue, Newark, NJ 07105</b>	<b>Spec. No.: SP-3</b> <b>Issue Date: MARCH 1990</b> <b>Sheet No.: 1 of 1</b>																		
<b>PVSC ENGINEERING STANDARD</b>	<b>TITLE Machine Cutting Oil</b>																		
<b>Purpose/Objective: Procurement Specification; Lubricant</b>																			
<b>Description:</b> <p style="text-align: right;"><b>PVSC Stock Number(s) – 1 Gal. Container – 0193029</b></p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;"><b>Pour Point</b></td> <td style="width: 50%; text-align: right;"><b>30 Deg. F</b></td> </tr> <tr> <td><b>Flash Point</b></td> <td style="text-align: right;"><b>350 Deg. F</b></td> </tr> <tr> <td><b>Viscosity</b></td> <td></td> </tr> <tr> <td style="padding-left: 20px;">cSt at 40 Deg. C</td> <td style="text-align: right;">33</td> </tr> <tr> <td style="padding-left: 20px;">cSt at 100 Deg. C</td> <td style="text-align: right;">6</td> </tr> <tr> <td> </td> <td></td> </tr> <tr> <td><b>Chlorine, Wt. %</b></td> <td style="text-align: right;"><b>&lt;1.0</b></td> </tr> <tr> <td><b>Sulfur, Wt. %</b></td> <td style="text-align: right;"><b>&lt;2.0</b></td> </tr> <tr> <td><b>Boron, Wt. %</b></td> <td style="text-align: right;"><b>-</b></td> </tr> </table> <p><b>Manufacturers of lubricants to this specification must be “REGISTERED” to the ISO 9000 (or higher) standard as established by the International Organization for Standardization.</b></p>		<b>Pour Point</b>	<b>30 Deg. F</b>	<b>Flash Point</b>	<b>350 Deg. F</b>	<b>Viscosity</b>		cSt at 40 Deg. C	33	cSt at 100 Deg. C	6	 		<b>Chlorine, Wt. %</b>	<b>&lt;1.0</b>	<b>Sulfur, Wt. %</b>	<b>&lt;2.0</b>	<b>Boron, Wt. %</b>	<b>-</b>
<b>Pour Point</b>	<b>30 Deg. F</b>																		
<b>Flash Point</b>	<b>350 Deg. F</b>																		
<b>Viscosity</b>																			
cSt at 40 Deg. C	33																		
cSt at 100 Deg. C	6																		
<b>Chlorine, Wt. %</b>	<b>&lt;1.0</b>																		
<b>Sulfur, Wt. %</b>	<b>&lt;2.0</b>																		
<b>Boron, Wt. %</b>	<b>-</b>																		
<b>Notes:</b> <b>Conforming Commercial Products:</b> <p style="padding-left: 40px;"><b>Mobilmet 766 Heavy Cutting</b>  <b>Mobilmet 426 Light to Moderate</b></p>																			
<b>Used on (PVSC Equipment):</b>																			
<b>Prepared by: KB/FG</b> <b>Date FEB 1985</b>	<b>Revisions:</b> <b>JAN 1999 – Added ISO 9000 requirement</b> <b>Jan. 2003 – Revised Performance Requirements and Conforming Products</b> <b>APRIL 2015 - Revised</b>																		
<small>2010 PVSC Spec/lzf</small>																			

**11910.5 Lubricant Specification**

**PASSAIC VALLEY SEWERAGE COMMISSION**  
**PLANT ENGINEERING DEPARTMENT**  
**600 Wilson Avenue, Newark, NJ 07105**

**Spec. No.: SP-4**  
**Issue Date: MARCH 1990**  
**Sheet No.: 1 of 1**

**PVSC ENGINEERING  
STANDARD**

**TITLE Vacuum Pump Oil**

**Purpose/Objective: Procurement Specification; Lubricant**

**Description:**

**PVSC Stock Number(s) – 5 Gal. Container – 0193030**

<b>ISO Viscosity</b>	<b>68</b>
<b>Viscosity Index</b>	<b>92</b>
<b>Pour Point</b>	<b>10 Deg. F</b>
<b>Flash Point</b>	<b>450 Deg. F</b>
<b>Viscosity</b>	
<b>cSt at 40 Deg. C</b>	<b>66</b>
<b>cSt at 100 Deg. C</b>	<b>8.3</b>

**Sulfur Content 1.5%**

**ISO 9000 Registration is waived for the Manufacturer of this product.**

**Notes:****Conforming Commercial Products:**

**Mobil Vacuum Pump Oil (Product # 60190-6)**

**Used on (PVSC Equipment):**

**Prepared by: KB/FG**  
**Date: FEB 1985**

**Revisions:**

**EWD – Jan. 1997:**  
    **Container size changed from 1 Gal.**  
**JAN 1999 – ISO 9000 waiver added**  
**Jan. 2003 – Revised Performance Requirements and**  
**Conforming products**

<b>11910.5 Lubricant Specification</b>															
<b>PASSAIC VALLEY SEWERAGE COMMISSION</b> <b>PLANT ENGINEERING DEPARTMENT</b> <b>600 Wilson Avenue, Newark, NJ 07105</b>	<b>Spec. No.: SP-5</b> <b>Issue Date: MARCH 1990</b> <b>Sheet No.: 1 of 1</b>														
<b>PVSC ENGINEERING STANDARD</b>	<b>TITLE Soluble Oil</b>														
<b>Purpose/Objective: Procurement Specification; Lubricant</b>															
<b>Description:</b> <p style="text-align: right;"><b>PVSC Stock Number(s) – 1 Gal. Container – 0193031</b></p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;"><b>Gravity, Deg. API</b></td> <td style="width: 50%; text-align: right;"><b>18.3</b></td> </tr> <tr> <td><b>Viscosity</b></td> <td></td> </tr> <tr> <td style="padding-left: 20px;">cSt at 40.0 Deg. C</td> <td style="text-align: right;">66.6</td> </tr> <tr> <td style="padding-left: 20px;">cSt at 100 Deg. C</td> <td style="text-align: right;">7.1</td> </tr> <tr> <td><b>Sulfur, %</b></td> <td style="text-align: right;">1.7</td> </tr> <tr> <td><b>Chlorine, %</b></td> <td style="text-align: right;">2.0</td> </tr> <tr> <td><b>Emulsifiers, %</b></td> <td style="text-align: right;">14.5</td> </tr> </table> <p><b>Manufacturers of lubricants to this specification must be “REGISTERED” to the ISO 9000 (or higher) standard as established by the International Organization for Standardization.</b></p>		<b>Gravity, Deg. API</b>	<b>18.3</b>	<b>Viscosity</b>		cSt at 40.0 Deg. C	66.6	cSt at 100 Deg. C	7.1	<b>Sulfur, %</b>	1.7	<b>Chlorine, %</b>	2.0	<b>Emulsifiers, %</b>	14.5
<b>Gravity, Deg. API</b>	<b>18.3</b>														
<b>Viscosity</b>															
cSt at 40.0 Deg. C	66.6														
cSt at 100 Deg. C	7.1														
<b>Sulfur, %</b>	1.7														
<b>Chlorine, %</b>	2.0														
<b>Emulsifiers, %</b>	14.5														
<b>Notes:</b> <b>Conforming Commercial Products:</b> <p style="padding-left: 40px;"><b>Lubriplate Cut-N-Cool</b></p>															
<b>Used on (PVSC Equipment):</b>															
<b>Prepared by: KB/FG</b> <b>Date: FEB 1985</b>	<b>Revisions:</b> <b>JAN 1999 – Added ISO 9000 requirement</b> <b>Jan. 2003 – Revised Performance Requirements and Conforming Products</b>														
<small>2010 PVSC Spec/lzf</small>															

<b>11910.5 Lubricant Specification</b>	
PASSAIC VALLEY SEWERAGE COMMISSION PLANT ENGINEERING DEPARTMENT 600 Wilson Avenue, Newark, NJ 07105	Spec. No.: SP-6 Issue Date: MARCH 1990 Sheet No.: 1 of 1
<b>PVSC ENGINEERING STANDARD</b>	TITLE Dielectric Oil
Purpose/Objective: Procurement Specification; Lubricant	
Description:  PVSC Stock Number(s) – 55 Gal. Drum – 0193032 5 Gal. Container	
Viscosity Index	>63
Pour Point	<-40 Deg. F
Flash Point	>310 Deg. F
Viscosity	
cSt at 40 Deg. C	8.7-9.1
cSt at 100 Deg. C	2.3
Gravity, API	27.2-28.4
Dielectric Strength KV	>38
Power Factor % @ 100 Deg. C	<0.10
Manufacturers of lubricants to this specification must be “REGISTERED” to the ISO 9000 (or higher) standard as established by the International Organization for Standardization.	
Notes: Conforming Commercial Products: Shell Diala AX Oil Texaco Transformer Oil Inhibited (Code#221515) Exxon Univolt N61	
Used on (PVSC Equipment):	
Prepared by: KB/FG Date: March 1990	Revisions: March 1990 EWD – Jan. 1997 - Container size JAN 1999 – Added ISO 9000 requirement Jan 2003 – Revised Performance Requirements and Conforming Products APRIL 2015 - Revised
2010 PVSC Spec/lzf	

**11910.5 Lubricant Specification**

PASSAIC VALLEY SEWERAGE COMMISSION  
 PLANT ENGINEERING DEPARTMENT  
 600 Wilson Avenue, Newark, NJ 07105

Spec. No.: SP-7  
 Issue Date: MARCH 1990  
 Sheet No.: 1 of 1

# PVSC ENGINEERING STANDARD

TITLE Petroleum Solvent

Purpose/Objective: Procurement Specification; Lubricant

**Description:**

PVSC Stock Number(s) – 1 Gal. Container –

**Characteristics**

Viscosity Index	223	
Specific Gravity	0.88	
Pour Point, Max F [C]	5	[-15]
Flash Point, Min. F [C]	>240	[121]
<b>Viscosity</b>		
cSt at 40 Deg. C	4.6	
Color, ASTM, Max.	2.0	
Rust Test (ASTM D665)	Pass	
Aniline Point, F [C]	32	[0]

Manufacturers of lubricants to this specification must be “REGISTERED” to the ISO 9000 (or higher) standard as established by the International Organization for Standardization.

**Notes:**

Conforming Commercial Products:

Used on (PVSC Equipment):

Prepared by: KB/FG  
 Date: March 1990  
 Approved by:  
 Date:

Revisions:  
 March 1990  
 JAN 1999 – Added ISO 9000 requirement  
 Jan 2003 – Revised Performance Requirements  
 MAR 2024 – deleted stock code #

<b>11910.5 Lubricant Specification</b>			
<b>PASSAIC VALLEY SEWERAGE COMMISSION</b>		<b>Spec. No.:</b>	<b>SP-8</b>
<b>PLANT ENGINEERING DEPARTMENT</b>		<b>Issue Date:</b>	<b>MARCH 1990</b>
600 Wilson Avenue, Newark, NJ 07105		<b>Sheet No.:</b>	<b>1 of 1</b>
<b>PVSC ENGINEERING STANDARD</b>		<b>TITLE</b>	<b>Inhibited Insulating Oil</b>
<b>Purpose/Objective: Procurement Specification; Lubricant</b>			
<b>Description:</b>			
		<b>PVSC Stock Number(s) – 15 Gal. Container</b>	
<b>ISO Viscosity</b>			
<b>Viscosity Index</b>		<b>&gt;63</b>	
<b>Pour Point</b>		<b>&lt;-40 Deg. F</b>	
<b>Flash Point</b>		<b>&gt;310 Deg. F</b>	
<b>Viscosity</b>			
<b>cSt at 40 Deg. C</b>		<b>8.7-9.1</b>	
<b>cSt at 100 Deg. C</b>		<b>2.3</b>	
<b>AGMA Grade:</b>			
<b>Gravity, API</b>		<b>27.2-28.4</b>	
<b>Dielectric Strength K</b>		<b>&gt;38</b>	
<b>Power Factor % at 100 Deg. C</b>		<b>&lt;.10</b>	
<b>Manufacturers of lubricants to this specification must be "REGISTERED" to the ISO 9000 (or higher) standard as established by the International Organization for Standardization.</b>			
<b>Notes:</b>			
<b>Conforming Commercial Products:</b>			
<p style="margin-left: 40px;"> <b>Texaco Transformer Oil Inhibited (Code#221515)</b>  <b>Shell Diala S2 ZX-A</b>  <b>Exxon Univolt N61</b> </p>			
<b>Used on (PVSC Equipment):</b>			
<b>Prepared by: KB/FG</b> <b>Date: March 1990</b> <b>Approved by:</b> <b>Date:</b>		<b>Revisions:</b> <b>March 1990</b> <b>EWD – Jan. 1997 - Added 15 Gal. Container</b> <b>JAN 1999 – Added ISO 9000 requirement</b> <b>Jan 2003 – Revised Performance Requirements and Conforming Products</b> <b>APRIL 2015 - Revised</b>	
2010 PVSC Spec/lzf			

<b>11910.5 Lubricant Specification</b>																							
<b>PASSAIC VALLEY SEWERAGE COMMISSION</b> <b>PLANT ENGINEERING DEPARTMENT</b> <b>600 Wilson Avenue, Newark, NJ 07105</b>	<b>Spec. No.: SP-9</b> <b>Issue Date: MARCH 1990</b> <b>Sheet No.: 1 of 1</b>																						
<b>PVSC ENGINEERING STANDARD</b>	<b>TITLE Two Cycle Engine Oil</b>																						
<b>Purpose/Objective: Procurement Specification; Lubricant</b>																							
<b>Description:</b> <div style="text-align: right;"><b>PVSC Stock Number(s) – 8 Oz. Container</b> <b>1 Gal. Container</b></div> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;"><b>NMMA TC – W3</b></td> <td style="width: 50%; text-align: center;"><b>Certified</b></td> </tr> <tr> <td><b>SAE Viscosity</b></td> <td style="text-align: center;"><b>40</b></td> </tr> <tr> <td><b>Viscosity Index</b></td> <td style="text-align: center;"><b>117 (Min.)</b></td> </tr> <tr> <td><b>Pour Point</b></td> <td style="text-align: center;"><b>&lt;-25 Deg. F</b></td> </tr> <tr> <td><b>Flash Point</b></td> <td style="text-align: center;"><b>&gt;180 Deg. F</b></td> </tr> <tr> <td colspan="2"><b>Viscosity</b></td> </tr> <tr> <td style="padding-left: 20px;"><b>cSt at 40 Deg. C</b></td> <td style="text-align: center;"><b>46.5</b></td> </tr> <tr> <td style="padding-left: 20px;"><b>cSt at 100 Deg. C</b></td> <td style="text-align: center;"><b>7.3</b></td> </tr> <tr> <td><b>Gravity Deg. API</b></td> <td style="text-align: center;"><b>29-32</b></td> </tr> <tr> <td><b>Ash. Wt., %</b></td> <td style="text-align: center;"><b>0</b></td> </tr> <tr> <td><b>Color</b></td> <td style="text-align: center;"><b>Blue / Green-Purple</b></td> </tr> </table> <p><b>Manufacturers of lubricants to this specification must be “REGISTERED” to the ISO 9000 (or higher) standard as established by the International Organization for Standardization.</b></p>		<b>NMMA TC – W3</b>	<b>Certified</b>	<b>SAE Viscosity</b>	<b>40</b>	<b>Viscosity Index</b>	<b>117 (Min.)</b>	<b>Pour Point</b>	<b>&lt;-25 Deg. F</b>	<b>Flash Point</b>	<b>&gt;180 Deg. F</b>	<b>Viscosity</b>		<b>cSt at 40 Deg. C</b>	<b>46.5</b>	<b>cSt at 100 Deg. C</b>	<b>7.3</b>	<b>Gravity Deg. API</b>	<b>29-32</b>	<b>Ash. Wt., %</b>	<b>0</b>	<b>Color</b>	<b>Blue / Green-Purple</b>
<b>NMMA TC – W3</b>	<b>Certified</b>																						
<b>SAE Viscosity</b>	<b>40</b>																						
<b>Viscosity Index</b>	<b>117 (Min.)</b>																						
<b>Pour Point</b>	<b>&lt;-25 Deg. F</b>																						
<b>Flash Point</b>	<b>&gt;180 Deg. F</b>																						
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<b>cSt at 100 Deg. C</b>	<b>7.3</b>																						
<b>Gravity Deg. API</b>	<b>29-32</b>																						
<b>Ash. Wt., %</b>	<b>0</b>																						
<b>Color</b>	<b>Blue / Green-Purple</b>																						
<b>Notes:</b> <b>Conforming Commercial Products:</b>  <b>Texaco Havoline Two-Cycle Engine Oil (Code#221896)</b> <b>Mobil Superflo 2-Cycle Supreme</b>																							
<b>Used on (PVSC Equipment):</b> <b>All two cycle internal combustion gasoline engines where gasoline and oil are mixed.</b>																							
<b>Prepared by: KB/FG</b> <b>Date: March 1990</b>	<b>Revisions:</b> <b>March 1990</b> <b>EWD – Jan. 1997 - Added 8 Oz. Container</b> <b>JAN 1999 – Added ISO 9000 requirement</b> <b>Jan 2003 – Revised Performance Requirements and Conforming Products</b> <b>APRIL 2015 - Revised</b>																						
<small>2010 PVSC Spec/lzf</small>																							

**11910.5 Lubricant Specification**

**PASSAIC VALLEY SEWERAGE COMMISSION  
PLANT ENGINEERING DEPARTMENT  
600 Wilson Avenue, Newark, NJ 07105**

**Spec. No.: SP-10  
Issue Date: MARCH 1990  
Sheet No.: 1 of 1**

**PVSC ENGINEERING STANDARD**

**TITLE Low Temperature Hydraulic Oil**

**Purpose/Objective: Procurement Specification; Lubricant**

**Description:**

**PVSC Stock Number(s) – 1 Qt. Container**

**AEROSHELL Fluid #4 as manufactured by the Shell Oil Company. (Product Code 60421) o this specification must be “REGISTERED” to the ISO 9000 (or higher) standard as established by the International Organization for Standardization.**

**Notes:**

**Suppliers offering a product other than the product specified must submit with their bid certification, from the BIF Corporation, that their product is approved for use as a hydraulic fluid in BIF Systems.**

**Used on (PVSC Equipment):**

**BIF Fluid flow measuring equipment**

**Prepared by: KB/FG  
Date: March 1990**

**Revisions:  
JAN 1999 – Added ISO 9000 requirement**

<b>11910.5 Lubricant Specification</b>	
<b>PASSAIC VALLEY SEWERAGE COMMISSION</b> <b>PLANT ENGINEERING DEPARTMENT</b> <b>600 Wilson Avenue, Newark, NJ 07105</b>	<b>Spec. No.: SP-11</b> <b>Issue Date: JAN 1993</b> <b>Sheet No.: 1 of 1</b>
<b>PVSC ENGINEERING STANDARD</b>	<b>TITLE Hydraulic Oil – Special Purpose</b>
<b>Purpose/Objective: Procurement Specification; Lubricant</b>	
<b>Description:</b>	
	<b>PVSC Stock Number(s) – 55 Gal.</b>
<b>ISO Viscosity</b>	<b>68</b>
<b>Viscosity Index</b>	<b>99</b>
<b>Pour Point</b>	<b>-25 Deg. F</b>
<b>Flash Point</b>	<b>460 Deg. F</b>
<b>Viscosity</b>	
<b>cSt at 40 Deg. C</b>	<b>68.0</b>
<b>cSt at 100 Deg. C</b>	<b>8.7</b>
<b>Rust ASTM D665:</b>	<b>Pass</b>
<b>AGMA Grade:</b>	<b>2</b>
<b>Rust &amp; Oxidation Inhibited Anti-Wear Additives</b>	
<b>Zinc Content</b>	<b>550 PPM (Minimum)</b>
<b>Manufacturers of lubricants to this specification must be “REGISTERED” to the ISO 9000 (or higher) standard as established by the International Organization for Standardization.</b>	
<b>Notes:</b>	
<b>Conforming Commercial Products:</b>	
<b>Shell Tellus Plus S2 MX68</b>	
<b>This is a special purpose lubricant. No other product will be considered for this application.</b>	
<b>Used on (PVSC Equipment):</b>	
<b>Centrifuge back drive – Interim Sludge Facility</b>	
<b>Prepared by: KB/FG</b> <b>Date: Jan. 1993</b>	<b>Revisions:</b> <b>JAN 1999 – Added ISO 9000 requirement</b> <b>Jan 2003 – Revised Performance Requirements and Conforming Products</b> <b>APRIL 2015 - Revised</b>
<b>2010 PVSC Spec/lzf</b>	

<b>11910.5 Lubricant Specification</b>		
<b>PASSAIC VALLEY SEWERAGE COMMISSION</b> <b>PLANT ENGINEERING DEPARTMENT</b> <b>600 Wilson Avenue, Newark, NJ 07105</b>		<b>Spec. No.: SP-12</b> <b>Issue Date: OCT 1994</b> <b>Sheet No.: 1 of 1</b>
<b>PVSC ENGINEERING STANDARD</b>		<b>TITLE Turbine Oil – Special Purpose</b>
<b>Purpose/Objective: Procurement Specification; Lubricant</b>		
<b>Description:</b>		
<b>PVSC Stock Number(s) – 55 Gal. - 0193099</b>		
<b>ANSI / AGMA 9005-D94</b>	<b>Pass</b>	
<b>ISO Viscosity</b>	<b>32</b>	
<b>API Gravity</b>	<b>30-33.5</b>	
<b>Viscosity Index</b>	<b>&gt; 100</b>	
<b>ASTM Color Index</b>	<b>1 to 3</b>	
<b>Pour Point</b>	<b>&lt; -20</b>	<b>Deg. F</b>
<b>Flash Point</b>	<b>&gt; 385</b>	<b>Deg. F</b>
<b>Ash, Wt. %</b>	<b>&lt; 0.002</b>	
<b>Viscosity</b>		
<b>cSt at 40 Deg. C</b>	<b>30.4-32</b>	
<b>cSt at 100 Deg. C</b>	<b>5.2-5.5</b>	
<b>SUS at 100 Deg. F</b>	<b>157</b>	
<b>SUS at 210 Deg. F</b>	<b>43.7</b>	
<b>Rust A &amp; B (ASTM D-665)</b>	<b>Must Pass</b>	
<b>RBOT, Minutes</b>	<b>&gt; 760</b>	
<b>Acid No. (ASTM D-974)</b>	<b>0.25</b>	<b>Max.</b>
<b>Turbine Oil Oxidation, hrs. to 2.0 Naturalization</b>	<b>4.350</b>	
<b>Emulsification (ASTM D-1401)</b>	<b>Complete separation in 15 Minutes or Less</b>	
<b>Foam (ASTM D-892)</b>	<b>Must Pass</b>	
<b>Manufacturers of lubricants to this specification must be "REGISTERED" to the ISO 9000 (or higher) standard as established by the International Organization for Standardization.</b>		
<b>Notes:</b>		
<b>Conforming Commercial Products:</b>		
<b>Texaco Product Code 220700 – Regal Oil R&amp;O 32 - <u>NO SUBSTITUTES</u></b>		
<b>Used on (PVSC Equipment):</b>		
<b>Oxygen Recirculation Compressors – Oxygenation Facility</b>		
<b>Prepared by: JMc</b> <b>Date: Oct. 1994</b>	<b>Revisions:</b> <b>EWD – Jan. 1997:</b> <b>Added Stock Number and No Substitutes</b> <b>JAN 1999 – Added ISO 9000 requirement</b> <b>Jan 2003 – Revised Performance Requirements and Conforming Products</b>	
<small>2010 PVSC Spec/lzf</small>		

11910.5 Lubricant Specification

<b>PASSAIC VALLEY SEWERAGE COMMISSION</b> <b>PLANT ENGINEERING DEPARTMENT</b> 600 Wilson Avenue, Newark, NJ 07105	<b>Spec. No.:</b> SP-13 <b>Issue Date:</b> JAN 1997 <b>Sheet No.:</b> 1 of 1
<b>PVSC ENGINEERING STANDARD</b>	<b>TITLE</b> Vacuum Pump Oil

**Purpose/Objective:** Procurement Specification; Lubricant

**Description:**

PVSC Stock Number(s) – 1 Qt. Container – 0191243

Gravity, °API	30.5
Pounds per Gallon	7.27
Flash Point, °F [°C], Min.	410 [215]
Fire Point, °F [°C]	480 [249]
Viscosity, cSt at 40 °C	38.8 – 40.8
Viscosity, cSt at 100 °C	6.1
Viscosity, SUS at 100 °C	207
Viscosity, SUS at 210 °C	46
Viscosity, Index, Min.	95
Pour Point °F [°C], Max.	+10 (-12)
Color, ASTM D-1500	1.0
Neutralization No.	0.05
Copper Strip Corrosion, Max. (2)	1
Carbon Residue, Conradson, %	< 0.01
<b>Distillation, ASTM D-1160</b>	
IBP	703
10%	787
20%	798
30%	805
40%	812
50%	818
60%	823
70%	831
80%	841
90%	860
EP	916
% Recovered	88.5

ISO 9000 Registration is waived for the Manufacturer of this product.

**Notes:**

- Results are typical unless ranges or limits are shown.
- ASTM D-130 - 3 hours at 212°F

**Conforming Commercial Products:**

Robinair Premium High Vacuum Pump Oil Part No. 13203

**Used on (PVSC Equipment):** Heat Treatment Chiller Vacuum Pump

<b>Prepared by:</b> EWD <b>Date:</b> Jan. 1997	<b>Revisions:</b> JAN 1999 – ISO 9000 waiver added
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**11910.5 Lubricant Specification**

**PASSAIC VALLEY SEWERAGE COMMISSION**  
**PLANT ENGINEERING DEPARTMENT**  
 600 Wilson Avenue, Newark, NJ 07105

**Spec. No.: SP-14**  
**Issue Date: JAN 2000**  
**Sheet No.: 1 of 1**

**PVSC ENGINEERING  
STANDARD**

**TITLE Synthetic Vacuum Pump Oil**

**Purpose/Objective: Procurement Specification; Special Purpose Lubricant**

**Description:**

**PVSC Stock Number(s) –  
5 Gal. Container**

<b>ISO Viscosity</b>	<b>100</b>
<b>Viscosity Index</b>	<b>142</b>
<b>Pour Point °C / °F</b>	<b>-47(-53)</b>
<b>Flash Point °C / °F</b>	<b>262 / (504)</b>
<b>Viscosity</b>	
<b>cSt at 40 Deg. C</b>	<b>95.0</b>
<b>cSt at 100 Deg. C</b>	<b>13.4</b>
<b>API Gravity</b>	<b>36.1</b>

**ISO 9000 Registration is waived for the Manufacture of this product.**

**Notes:****Conforming Commercial Products:**

**Chevron “Tegra” 100    NO SUBSTITUTES (Product Code 259128)**

**Used on (PVSC Equipment):**

**Vacuum Pump – Laboratory Building**

**Prepared by: F. Grigg**  
**Date: JAN 2000**

**Revisions:  
Jan 2003 – Revised Performance Requirements**

**11910.5 Lubricant Specification**

PASSAIC VALLEY SEWERAGE COMMISSION  
 PLANT ENGINEERING DEPARTMENT  
 600 Wilson Avenue, Newark, NJ 07105

Spec. No.: **SP-15**  
 Issue Date: **JAN 2000**  
 Sheet No.: **1 of 1**

# PVSC ENGINEERING STANDARD

TITLE **Machine Tool Way Oil**

Purpose/Objective: **Procurement Specification; Machine Tool Way Oil**

**Description:**

PVSC Stock Number(s) –  
5 Gal. Container

ISO Viscosity	68
Viscosity Index	96
Pour Point °C / °F	-21 / (-6)
Flash Point °C / °F	205 / (399)
<b>Viscosity</b>	
cSt at 40 Deg. C	68
cSt at 100 Deg. C	8.6
Rust A & B (ASTM D-665)	Must Pass
Acid No. (ASTM D-974)	0.45
Demulsibility (ASTM D-1401) @ 54°C	25

ISO 9000 Registration is waived for the Manufacturer of this product.

**Notes:****Conforming Commercial Products:**

**Mobil Vactra #2    NO SUBSTITUTES**

**Used on (PVSC Equipment):**

**Machine Tool Box Ways and Slides**

Prepared by: **F. Grigg**  
 Date: **JAN 2000**

**Revisions:**

<b>11910.5 Lubricant Specification</b>			
<b>PASSAIC VALLEY SEWERAGE COMMISSION</b> <b>PLANT ENGINEERING DEPARTMENT</b> 600 Wilson Avenue, Newark, NJ 07105		<b>Spec. No.:</b>	<b>SP-16</b>
		<b>Issue Date:</b>	<b>JAN 2003</b>
		<b>Sheet No.:</b>	<b>1 of 1</b>
<b>PVSC ENGINEERING STANDARD</b>		<b>TITLE</b>	<b>Biodegradable Hydraulic Oil</b>
<b>Purpose/Objective: Procurement Specification; Special Purpose Lubricant</b>			
<b>Description:</b>			
		<b>PVSC Stock Number(s) –</b>	
		<b>1200000107</b>	<b>55 Gal. Drum</b>
<b>ISO Viscosity</b>		<b>46</b>	
<b>Viscosity Index</b>		<b>205</b>	
<b>Pour Point °C / °F</b>		<b>-30 / -22</b>	
<b>Flash Point °C / °F</b>		<b>225 / 437</b>	
<b>Viscosity</b>			
<b>cSt at 40 Deg. C</b>		<b>36.78</b>	
<b>cSt at 100 Deg. C</b>		<b>8.3</b>	
<b>Biodegradability, CEC-L-33-A94,%</b>		<b>80</b>	
 <b>Manufacturers of lubricants to this specification must be “Registered” to the ISO 9000 (or higher) standard as established by the International Organization for Standardization</b>			
<b>Notes:</b>			
<b>Conforming Commercial Products:</b>			
<b>Mobil EAL 224 H</b> <b>Vegetable Base Oil</b>			
<b>Used on (PVSC Equipment):</b>			
<b>Prepared by:</b> <b>JB</b>		<b>Revisions:</b>	
<b>Date:</b> <b>JAN 2003</b>		<b>APRIL 2015</b>	
		<b>MARCH 2024 – ADDED STOCK NUMBER</b>	
<small>2010 PVSC Spec/lzf</small>			

<b>11910.5 Lubricant Specification</b>																																			
PASSAIC VALLEY SEWERAGE COMMISSION PLANT ENGINEERING DEPARTMENT 600 Wilson Avenue, Newark, NJ 07105	Spec. No.: <b>SP-17</b> Issue Date: <b>Jan 2003</b> Sheet No.: <b>1 of 1</b>																																		
<b>PVSC ENGINEERING STANDARD</b>	TITLE <b>Premium Circulating Oil</b>																																		
Purpose/Objective: <b>Procurement Specification; Lubricant</b>																																			
<p>Description:</p> <p style="text-align: right;">PVSC Stock Number(s) – 5 Gal. – Container</p> <table> <tr> <td>ANSI / AGMA 9005-D94</td> <td>Pass</td> </tr> <tr> <td>ISO Viscosity</td> <td>320</td> </tr> <tr> <td>API Gravity</td> <td>26.2</td> </tr> <tr> <td>Viscosity Index</td> <td>95</td> </tr> <tr> <td>Pour Point</td> <td>16 Deg.</td> </tr> <tr> <td>Flash Point</td> <td>277 Deg.</td> </tr> <tr> <td>Viscosity</td> <td></td> </tr> <tr> <td>    cSt at 40 Deg. C</td> <td>306</td> </tr> <tr> <td>    cSt at 100 Deg. C</td> <td>23.8</td> </tr> <tr> <td>SUS at 100 Deg. F</td> <td>1620</td> </tr> <tr> <td>SUS at 210 Deg. F</td> <td>115</td> </tr> <tr> <td>Rust A (ASTM D-665)</td> <td>Must</td> </tr> <tr> <td></td> <td>-</td> </tr> <tr> <td>Oxidation Stability (ASTM D-943)</td> <td>1000 Hours</td> </tr> <tr> <td>Emulsification (ASTM D-1401)</td> <td>Complete separation in 15 Minutes or Less</td> </tr> <tr> <td>Foam (ASTM D-892)</td> <td>Must</td> </tr> <tr> <td></td> <td>-</td> </tr> </table> <p>Manufacturers of lubricants to this specification must be "REGISTERED" to the ISO 9000 (or higher) standard as established by the International Organization for Standardization.</p>		ANSI / AGMA 9005-D94	Pass	ISO Viscosity	320	API Gravity	26.2	Viscosity Index	95	Pour Point	16 Deg.	Flash Point	277 Deg.	Viscosity		cSt at 40 Deg. C	306	cSt at 100 Deg. C	23.8	SUS at 100 Deg. F	1620	SUS at 210 Deg. F	115	Rust A (ASTM D-665)	Must		-	Oxidation Stability (ASTM D-943)	1000 Hours	Emulsification (ASTM D-1401)	Complete separation in 15 Minutes or Less	Foam (ASTM D-892)	Must		-
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Foam (ASTM D-892)	Must																																		
	-																																		
<p>Notes:</p> <p>Conforming Commercial Products:</p> <p style="padding-left: 40px;">Mobil Teresstic Grade 320</p>																																			
Used on (PVSC Equipment):																																			
<p>Prepared by: <b>JB</b></p> <p>Date: <b>Jan 2003</b></p>	<p>Revisions:</p> <p><b>APRIL 2015 – Revised</b></p>																																		
2010 PVSC Spec/lzf																																			

<b>11910.5 Lubricant Specification</b>	
<b>PASSAIC VALLEY SEWERAGE COMMISSION</b> <b>PLANT ENGINEERING DEPARTMENT</b> <b>600 Wilson Avenue, Newark, NJ 07105</b>	<b>Spec. No.: SP-18</b> <b>Issue Date: Jan 2003</b> <b>Sheet No.: 1 of 1</b>
<b>PVSC ENGINEERING</b> <b>STANDARD</b>	<b>TITLE Thread Cutting Oil</b>
<b>Purpose/Objective: Procurement Specification; Lubricant</b>	
<b>Description:</b> <p style="text-align: right;"><b>PVSC Stock Number(s) – 1 Gallon Container</b></p> <p><b>RIDGID Premium Nu-Clear Thread Cutting Oil (Catalog#70835) as manufactured by the Ridge Tool Company.</b></p>	
<b>Notes:</b> <p style="text-align: center;"><b>This is a special purpose lubricant. No other product will be considered for this application.</b></p>	
<b>Used on (PVSC Equipment):</b>	
<b>Prepared by: JB</b> <b>Date: Jan 2003</b>	<b>Revisions:</b>
<small>2010 PVSC Spec/lzf</small>	

<b>11910.5 Lubricant Specification</b>			
<b>PASSAIC VALLEY SEWERAGE COMMISSION</b>	<b>Spec. No.:</b>		<b>SP-19</b>
<b>PLANT ENGINEERING DEPARTMENT</b>	<b>Issue Date:</b>		<b>JAN 2003</b>
<b>600 Wilson Avenue, Newark, NJ 07105</b>	<b>Sheet No.:</b>		<b>1 of 1</b>
<b>PVSC ENGINEERING STANDARD</b>	<b>TITLE</b>	<b>Air Tool Oil</b>	
<b>Purpose/Objective: Procurement Specification; Special Purpose Lubricant</b>			
<b>Description:</b>			
	<b>PVSC Stock Number(s) –</b>		
	<b>1 Quart Container</b>		
<b>ISO Viscosity</b>	<b>46</b>		
<b>Viscosity Index</b>	<b>90</b>		
<b>Pour Point °C / °F</b>	<b>-29 / -20</b>		
<b>Flash Point °C / °F</b>	<b>188 / 370</b>		
<b>Viscosity</b>			
<b>cSt at 40 Deg. C</b>	<b>45</b>		
<b>cSt at 100 Deg. C</b>	<b>6.5</b>		
<b>Rust Protection ASTM D655 A&amp;B</b>	<b>Pass</b>		
 <b>Manufacturers of lubricants to this specification must be “Registered” to the ISO 9000 (or higher) standard as established by the International Organization for Standardization</b>			
<b>Notes:</b>			
<b>Conforming Commercial Products:</b>			
<b>Mobil Almo 525 (Product#60318-3)</b>			
<b>Used on (PVSC Equipment):</b>			
<b>Prepared by: JB</b>		<b>Revisions:</b>	
<b>Date: JAN 2003</b>			
<small>2010 PVSC Spec/lzf</small>			

<b>11910.5 Lubricant Specification</b>																										
<b>PASSAIC VALLEY SEWERAGE COMMISSION</b> <b>PLANT ENGINEERING DEPARTMENT</b> <b>600 Wilson Avenue, Newark, NJ 07105</b>		<b>Spec. No.: SP-20</b> <b>Issue Date: FEB 2007</b> <b>Sheet No.: 1 of 1</b>																								
<b>PVSC ENGINEERING STANDARD</b>		<b>TITLE Hydraulic Oil – Special Purpose</b>																								
<b>Purpose/Objective: Procurement Specification; Lubricant</b>																										
<b>Description:</b> <div style="text-align: right;"><b>PVSC Stock Number(s) – 55 Gal. Drum – 5 Gallon Pail</b></div> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;"><b>ISO Viscosity</b></td> <td style="width: 20%; text-align: center;"><b>100</b></td> <td style="width: 30%;"></td> </tr> <tr> <td><b>Viscosity Index</b></td> <td style="text-align: center;"><b>95</b></td> <td></td> </tr> <tr> <td><b>Pour Point</b></td> <td style="text-align: center;"><b>-5</b></td> <td style="text-align: center;"><b>Deg. F</b></td> </tr> <tr> <td><b>Flash Point</b></td> <td style="text-align: center;"><b>445</b></td> <td style="text-align: center;"><b>Deg. F</b></td> </tr> <tr> <td colspan="3"><b>Viscosity</b></td> </tr> <tr> <td style="padding-left: 20px;"><b>cSt at 40 Deg. C</b></td> <td style="text-align: center;"><b>100</b></td> <td></td> </tr> <tr> <td style="padding-left: 20px;"><b>cSt at 100 Deg. C</b></td> <td style="text-align: center;"><b>11.1</b></td> <td></td> </tr> <tr> <td><b>Rust ASTM D665:</b></td> <td style="text-align: center;"><b>Pass</b></td> <td></td> </tr> </table> <p><b>Manufacturers of lubricants to this specification must be “REGISTERED” to the ISO 9000 (or higher) standard as established by the International Organization for Standardization.</b></p>			<b>ISO Viscosity</b>	<b>100</b>		<b>Viscosity Index</b>	<b>95</b>		<b>Pour Point</b>	<b>-5</b>	<b>Deg. F</b>	<b>Flash Point</b>	<b>445</b>	<b>Deg. F</b>	<b>Viscosity</b>			<b>cSt at 40 Deg. C</b>	<b>100</b>		<b>cSt at 100 Deg. C</b>	<b>11.1</b>		<b>Rust ASTM D665:</b>	<b>Pass</b>	
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<b>Rust ASTM D665:</b>	<b>Pass</b>																									
<b>Notes:</b> <b>Conforming Commercial Products:</b> <p style="margin-left: 40px;"><b>Shell Tellus S2 M100</b>  <b>This is a special purpose lubricant. No other product will be considered for this application.</b></p>																										
<b>Used on (PVSC Equipment):</b>																										
<b>Prepared by: JB</b> <b>Date: FEB 2007</b>		<b>Revisions:</b> <b>APRIL 2015 - Revised</b>																								

<b>11910.5 Lubricant Specification</b>																													
<b>PASSAIC VALLEY SEWERAGE COMMISSION</b> <b>PLANT ENGINEERING DEPARTMENT</b> <b>600 Wilson Avenue, Newark, NJ 07105</b>	<b>Spec. No.:</b> SP-21 <b>Issue Date:</b> MAR 2024 <b>Sheet No.:</b> 1 of 1																												
<b>PVSC ENGINEERING STANDARD</b>	<b>TITLE</b> Hydraulic Oil – Special Purpose																												
<b>Purpose/Objective:</b> Procurement Specification; Lubricant																													
<b>Description:</b> <div style="text-align: right;"><b>PVSC Stock Number(s) – 55 Gal. Drum</b></div> <div style="text-align: right;"><b>1800000010</b></div> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;"><b>ISO Viscosity</b></td> <td style="width: 25%; text-align: right;"><b>46</b></td> <td style="width: 25%;"></td> </tr> <tr> <td><b>Viscosity Index</b></td> <td style="text-align: right;"><b>104</b></td> <td></td> </tr> <tr> <td><b>Pour Point</b></td> <td style="text-align: right;"><b>-16</b></td> <td style="text-align: right;"><b>Deg. C</b></td> </tr> <tr> <td><b>Flash Point</b></td> <td style="text-align: right;"><b>206</b></td> <td style="text-align: right;"><b>Deg. C</b></td> </tr> <tr> <td colspan="3"><b>Viscosity</b></td> </tr> <tr> <td style="padding-left: 20px;"><b>cSt at 40 Deg. C</b></td> <td style="text-align: right;"><b>46.7</b></td> <td></td> </tr> <tr> <td style="padding-left: 20px;"><b>cSt at 100 Deg. C</b></td> <td style="text-align: right;"><b>7.2</b></td> <td></td> </tr> <tr> <td><b>Rust ASTM D665:</b></td> <td style="text-align: right;"><b>Pass</b></td> <td></td> </tr> <tr> <td><b>AGMA Grade:</b></td> <td style="text-align: right;"><b>ISO 46</b></td> <td></td> </tr> </table> <p>Manufacturers of lubricants to this specification must be “REGISTERED” to the ISO 9000 (or higher) standard as established by the International Organization for Standardization.</p>			<b>ISO Viscosity</b>	<b>46</b>		<b>Viscosity Index</b>	<b>104</b>		<b>Pour Point</b>	<b>-16</b>	<b>Deg. C</b>	<b>Flash Point</b>	<b>206</b>	<b>Deg. C</b>	<b>Viscosity</b>			<b>cSt at 40 Deg. C</b>	<b>46.7</b>		<b>cSt at 100 Deg. C</b>	<b>7.2</b>		<b>Rust ASTM D665:</b>	<b>Pass</b>		<b>AGMA Grade:</b>	<b>ISO 46</b>	
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<b>Rust ASTM D665:</b>	<b>Pass</b>																												
<b>AGMA Grade:</b>	<b>ISO 46</b>																												
<b>Notes:</b> <b>Conforming Commercial Products:</b> <p>CLARION Green A/W (46) oils are designed for use in the pumps and gears of high-pressure hydraulic equipment operating in environmentally sensitive areas. No other product will be considered for this application.</p>																													
<b>Used on (PVSC Equipment):</b> River Restoration Equipment																													
<b>Prepared by:</b> SMA <b>Date:</b> MAR 2024	<b>Revisions:</b>																												
2010 PVSC Spec/lzf																													

**SPECIAL PURPOSE GREASES SPECIFICATIONS**

<b>PVSC SPEC NO.</b>	<b>DESCRIPTION</b>	<b>INDUSTRIAL / COMMERCIAL DESIGNATION</b>
SPG-1	High Temperature Grease	NLGI-2
SPG-3	Graphite Grease	NLGI-2 EP
SPG-4	Semi-Fluid EP Grease	NLGI-000 EP
SPG-5	Multi-Purpose Automobile Grease	NLGI-2 EP
SPG-10	Open Gear Grease	NLGI-3
SPG-11	Moly Grease (Lubriplate 3000)	NLGI- 2 EP
SPG-13	Lithium Soap Base Moly Grease	NLGI - OEP
SPG-14	Long Term Coupling Grease	NLGI - 1/2
SPG-15	Semi-Fluid EP Grease	NLGI-00 EP
SPG-16	High Temperature EP Grease	NLGI-2 EP
SPG-17	Flexible Coupling EP Grease	NLGI - 1EP
SPG-18	Wire Rope Grease	NLGI - 1
SPG-19	Corrosion Control Grease	NLGI-2 GC-LB
SPG-20	Aluminum Soap Base Moly Grease	NLGI-OEP
SPG-21	Aluminum Soap Base Moly Grease	NLGI-1EP
SPG-22	Automatic Lubricator	NGLI-O
SPG-23	High Temperature Lithium Grease	NLGI-2

**11910.5 Lubricant Specification**

**PASSAIC VALLEY SEWERAGE COMMISSION  
PLANT ENGINEERING DEPARTMENT  
600 Wilson Avenue, Newark, NJ 07105**

**Spec. No.: SPG-1  
Issue Date: SEPT 1991  
Sheet No.: 1 of 1**

**PVSC ENGINEERING  
STANDARD**

**TITLE NLGI-2  
High Temperature Grease**

**Purpose/Objective: Procurement Specification; Lubricant**

**Description:**

**PVSC Stock Number(s) – 35 Lb. Container - 0193058**

<b>Drop Point, Deg. F</b>	<b>&gt;500</b>
<b>Penetration, dmm – Unworked</b>	<b>310</b>
<b>Worked 60 Strokes</b>	<b>280-285</b>
<b>Viscosity</b>	
<b>cSt at 40 Deg. C</b>	<b>116-129</b>
<b>cSt at 100 Deg. C</b>	<b>12.2 – 12.9</b>
<b>Viscosity Index</b>	<b>85</b>
<b>Navy Rig Life at 300 Deg. F, hrs</b>	<b>3500</b>
<b>Oxid. Stability, psi Drop</b>	
<b>210 Deg. F, 100 Hrs.</b>	<b>5</b>
<b>210 Deg. F, 500 Hrs.</b>	<b>13</b>
<b>210 Deg. F, 1000 Hrs.</b>	<b>18</b>
<b>300 Deg. F, 24 Hrs.</b>	<b>23</b>
<b>Wheel Bearing Leak, 275 Deg. F, gm</b>	<b>2.0</b>
<b>Pressure Bleed, %</b>	<b>0.1</b>
<b>Oil Separation, 300 Deg. F, Hrs. gm</b>	<b>.42</b>
<b>Low Temperature Torque –20 Deg. F, gm-cm Start</b>	<b>1600</b>
<b>Run 10 Minutes</b>	<b>599</b>
<b>Run 60 Minutes</b>	<b>415</b>
<b>Apparent Visc. 0 Deg. F, Pauses</b>	
<b>25 Sec.</b>	<b>3500</b>
<b>50 Sec.</b>	<b>2480</b>
<b>100 Sec.</b>	<b>1750</b>
<b>200 Sec.</b>	<b>1240</b>
<b>500 Sec.</b>	<b>780</b>
<b>Rust Prevention (D5969)</b>	<b>Pass</b>
<b>Water Washout, 175 Deg. F, %</b>	<b>&lt;2.7</b>
<b>Timken OK Load, Lbs.</b>	<b>45</b>

**Manufacturers of lubricants to this specification must be “REGISTERED” to the ISO 9000 (or higher) standard as established by the International Organization for Standardization.**

**Notes:**

**Conforming Commercial Products: Mobil Polyrex EP2**

**Used on (PVSC Equipment):**

**Prepared by: KB/FG  
Date: Sept. 1991**

**Revisions:**

**Conforming Comm. Prod. Was Dolium 5  
EP Designation Deleted  
EWD – Jan. 1997 - Added 35 Lb. Container  
JAN 1999 – Added ISO 9000 requirement  
Jan 2003 – Revised Performance Requirements &  
Conforming Products  
APRIL 2015 - Revised**

11910.5 Lubricant Specification

<p align="center"><b>PASSAIC VALLEY SEWERAGE COMMISSION PLANT ENGINEERING DEPARTMENT 600 Wilson Avenue, Newark, NJ 07105</b></p>	<p align="right">Spec. No.: <b>SPG-3</b> Issue Date: <b>MARCH 1990</b> Sheet No.: <b>1 of 1</b></p>												
<p align="center"><b>PVSC ENGINEERING STANDARD</b></p>	<p>TITLE <b>NLGI – 2 EP Graphite Grease</b></p>												
<p><b>Purpose/Objective: Procurement Specification; Lubricant</b></p>													
<p><b>Description:</b></p> <p align="right"><b>PVSC Stock Number(s) – 35 Lb. Container</b></p> <table border="0" data-bbox="142 625 1039 924"> <tr> <td><b>Calcium Soap, %</b></td> <td align="right"><b>9.0</b></td> </tr> <tr> <td><b>Solid Additive (Graphite), %</b></td> <td align="right"><b>12</b></td> </tr> <tr> <td><b>Penetration, ASTM at 25 Deg. C / 77 Deg. F, Worked</b></td> <td align="right"><b>280</b></td> </tr> <tr> <td><b>Dropping Point, Deg. C / Deg. F</b></td> <td align="right"><b>99 (210)</b></td> </tr> <tr> <td><b>Viscosity</b></td> <td></td> </tr> <tr> <td>    <b>cSt at 40 Deg. C</b></td> <td align="right"><b>875</b></td> </tr> </table> <p><b>Manufacturers of lubricants to this specification must be “REGISTERED” to the ISO 9000 (or higher) standard as established by the International Organization for Standardization.</b></p>		<b>Calcium Soap, %</b>	<b>9.0</b>	<b>Solid Additive (Graphite), %</b>	<b>12</b>	<b>Penetration, ASTM at 25 Deg. C / 77 Deg. F, Worked</b>	<b>280</b>	<b>Dropping Point, Deg. C / Deg. F</b>	<b>99 (210)</b>	<b>Viscosity</b>		<b>cSt at 40 Deg. C</b>	<b>875</b>
<b>Calcium Soap, %</b>	<b>9.0</b>												
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<b>Viscosity</b>													
<b>cSt at 40 Deg. C</b>	<b>875</b>												
<p><b>Notes:</b> <b>Conforming Commercial Products:</b></p> <p align="center"><b>Chevron Texclad #2</b></p>													
<p><b>Used on (PVSC Equipment):</b></p> <p align="center"><b>Overhead Door Equipment</b></p>													
<p align="center"><b>Prepared by: KB/FG</b> <b>Date: March 1990</b></p>	<p><b>Revisions:</b> <b>EWD – Jan. 1997:</b>     Deleted Stock No. 0193060     Added 35 Lb. Container <b>JAN 1999 – Added ISO 9000 requirement</b> <b>Jan 2003 – Revise Performance Requirements</b></p>												

11910.5 Lubricant Specification

<p>PASSAIC VALLEY SEWERAGE COMMISSIONERS          PLANT ENGINEERING DEPARTMENT          600 Wilson Avenue, Newark, NJ 07105</p>	<p>Spec. No.: <b>SPG-4</b>          Issue Date: <b>MARCH 1990</b>          Sheet No.: <b>1 of 1</b></p>																						
<p><b>PVSC ENGINEERING          STANDARD</b></p>	<p>TITLE <b>NLGI – 000 EP          Semi-Fluid EP Grease</b></p>																						
<p>Purpose/Objective: Procurement Specification; Lubricant</p>																							
<p>Description:</p> <p style="text-align: right;">PVSC Stock Number(s) – 35 Lb. Container - 0193061</p> <table border="0" style="width: 100%;"> <tr> <td style="width: 50%;">Color</td> <td>Medium Brown</td> </tr> <tr> <td>Structure</td> <td>Semifluid</td> </tr> <tr> <td>Soap Type</td> <td>Lithium 12 Hydroxystearate Unleaded</td> </tr> <tr> <td>Viscosity</td> <td></td> </tr> <tr> <td>    cSt at 40 Deg. C</td> <td>325</td> </tr> <tr> <td>    cSt at 100 Deg. C</td> <td>25</td> </tr> <tr> <td>NLGI Consistency Grade</td> <td>NLGI 000</td> </tr> <tr> <td>Timken OK Load Lb., Min.</td> <td>40</td> </tr> <tr> <td>4-Ball EP Test Weld Load, kg. Min.</td> <td>160</td> </tr> <tr> <td>Wear Test, 40 kg. At 167 Deg. F, 1200 rpm,     1 hr. Scar Diameter, mm</td> <td>0.7</td> </tr> <tr> <td>Bomb Copper Corrosion, psi Drop, 100 Hr. Max.</td> <td>10</td> </tr> </table> <p>Manufacturers of lubricants to this specification must be “REGISTERED” to the ISO 9000 (or higher) standard as established by the International Organization for Standardization.</p>		Color	Medium Brown	Structure	Semifluid	Soap Type	Lithium 12 Hydroxystearate Unleaded	Viscosity		cSt at 40 Deg. C	325	cSt at 100 Deg. C	25	NLGI Consistency Grade	NLGI 000	Timken OK Load Lb., Min.	40	4-Ball EP Test Weld Load, kg. Min.	160	Wear Test, 40 kg. At 167 Deg. F, 1200 rpm, 1 hr. Scar Diameter, mm	0.7	Bomb Copper Corrosion, psi Drop, 100 Hr. Max.	10
Color	Medium Brown																						
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Bomb Copper Corrosion, psi Drop, 100 Hr. Max.	10																						
<p>Notes:</p> <p>(1) Conforming Commercial Products: Mobilux EP 023 NLGI 000 (Product #64105-0)</p> <p>(2) NO SUBSTITUTE WILL BE ACCEPTED</p>																							
<p>Used on (PVSC Equipment):</p>																							
<p>Prepared by: <b>KB/FG</b>          Date: <b>March 1990</b>          Approved by:          Date:</p>	<p>Revisions:          EWD – Jan. 1997 – Added 35 Lb. Container          JAN 1999:          Added note (2), deleted oil analysis note, and          Added ISO 9000 requirement          Jan. 2003 Revise Performance Requirements</p>																						

**11910.5 Lubricant Specification**

**PASSAIC VALLEY SEWERAGE COMMISSION  
PLANT ENGINEERING DEPARTMENT  
600 Wilson Avenue, Newark, NJ 07105**

**Spec. No.: SPG-5  
Issue Date: MARCH 1990  
Sheet No.: 1 of 1**

**PVSC ENGINEERING  
STANDARD**

**TITLE NLGI – 2 EP  
Multi-Purpose Automobile Grease**

**Purpose/Objective: Procurement Specification; Lubricant**

**Description:**

**PVSC Stock Number(s) – 400 Lb. Drum - 0193062**

**Type of Base**

**Lithium**

**NLGI Number**

**2**

**Worked Penetration Tests**

**60 Strokes**

**227-280**

**5,000 Strokes**

**275-284**

**10,000 Strokes**

**275-284**

**100,000 Strokes**

**295-306**

**ASTM Dropping Point**

**>500 Deg. F +**

**Wheel Bearing Test**

**3 grams leakage**

**Norma Hoffman Oxid. Bomb Test**

**2-3 psi per 100 hrs.**

**Timken EP Test – OK Load**

**>40 Lbs.**

**Four Ball EP Test, Weld Load, Kg.**

**>250**

**Mineral Oil Viscosity**

**cSt at 40 Deg. C**

**220**

**Water Resistant**

**Yes**

**Rust & Protection (ASTM D 1743)**

**Pass**

**Manufacturers of lubricants to this specification must be “REGISTERED” to the ISO 9000 (or higher) standard as established by the International Organization for Standardization.**

**Notes:****Conforming Commercial Products:**

**Lubriplate 1200-2**

**Mobil Grease XHP 222 (Product # 53043-6)**

**Shell Gadus S3 V220C 2**

**Used on (PVSC Equipment):**

**Prepared by:**

**KB/FG**

**Date:**

**March 1990**

**Revisions:**

**March 1990**

**EWD – Jan. 1997 – Added 400 Lb. Drum**

**JAN 1999 – Added ISO 9000 requirement**

**Jan 2003 Revised Performance Requirements and Conforming Products**

**APRIL 2015 - Revised**

**11910.5 Lubricant Specification**

**PASSAIC VALLEY SEWERAGE COMMISSION  
 PLANT ENGINEERING DEPARTMENT  
 600 Wilson Avenue, Newark, NJ 07105**

**Spec. No.: SPG-10  
 Issue Date: MARCH 1990  
 Sheet No.: 1 of 1**

**PVSC ENGINEERING  
 STANDARD**

**TITLE Open Gear Grease**

**Purpose/Objective: Procurement Specification; Lubricant**

**Description:**

**PVSC Stock Number(s) – 35 Lb. Pail**

<b>Type of Base</b>	<b>Lithium or</b>	<b>Calcium</b>
<b>Worked Penetration at 77 Deg. F</b>		<b>240</b>
<b>ASTM Dropping Point Deg. F</b>		<b>370</b>
<b>Base Oil Viscosity</b>		
<b>cST at 100 Deg. C</b>	<b>200</b>	<b>+</b>
<b>NLGI</b>	<b>3</b>	

**Manufacturers of lubricants to this specification must be “REGISTERED” to the ISO 9000 (or higher) standard as established by the International Organization for Standardization.**

**Notes:****Conforming Commercial Products:**

**Lubriplate “Gear Shield, Extra Heavy”**

**Used on (PVSC Equipment):**

**Open Gearing: Rock & Pinion Drive; Primary Clarifier Mobil Crane Boom**

**Prepared by: KB/FG  
 Date: March 1990**

**Revisions:  
 JAN 1999 – Added ISO 9000 requirement  
 Jan 2003 – Revised Performance Requirements**

11910.5 Lubricant Specification

<p align="center"><b>PASSAIC VALLEY SEWERAGE COMMISSION PLANT ENGINEERING DEPARTMENT 600 Wilson Avenue, Newark, NJ 07105</b></p>	<p align="right">Spec. No.: <b>SPG-11</b> Issue Date: <b>MARCH 1990</b> Sheet No.: <b>1 of 1</b></p>																														
<p align="center"><b>PVSC ENGINEERING STANDARD</b></p>	<p>TITLE <b>Moly Grease Lubriplate 3000</b></p>																														
<p><b>Purpose/Objective: Procurement Specification; Lubricant</b></p>																															
<p><b>Description:</b></p> <p align="right"><b>PVSC Stock Number(s) – 35 Lb. Container - 0193065</b></p> <table border="0"> <tr> <td><b>Type of Base</b></td> <td><b>Lithium</b></td> </tr> <tr> <td><b>Worked Penetration Range</b></td> <td><b>265/295</b></td> </tr> <tr> <td><b>NLGI Number</b></td> <td><b>2 EP</b></td> </tr> <tr> <td><b>Worked Penetration Tests</b></td> <td></td> </tr> <tr> <td>    <b>60 Strokes</b></td> <td><b>276</b></td> </tr> <tr> <td>    <b>100,000 Strokes</b></td> <td><b>302</b></td> </tr> <tr> <td><b>ASTM Dropping Point</b></td> <td><b>400 Deg. F +, 205 Deg. C +</b></td> </tr> <tr> <td><b>Timken Test – Pounds on Lever Arm</b></td> <td><b>60 Lbs.</b></td> </tr> <tr> <td><b>Four Ball Test</b></td> <td></td> </tr> <tr> <td>    <b>OK Load</b></td> <td><b>630 Kg.</b></td> </tr> <tr> <td>    <b>Load Wear</b></td> <td><b>103.9 Kg.</b></td> </tr> <tr> <td><b>Mineral Oil Viscosity</b></td> <td></td> </tr> <tr> <td>    <b>SUS at 210 Deg. F</b></td> <td><b>90-95</b></td> </tr> <tr> <td>    <b>cSt at 40 Deg. C</b></td> <td><b>18-19</b></td> </tr> <tr> <td><b>Polymer</b></td> <td><b>Tenacious – Adhesive</b></td> </tr> </table> <p><b>Non-Corrosive Extreme Pressure; Water Resistant; Rust and Oxidation Inhibited; Shear Stable (Resists Breakdown); Contains Molybdenum Disulfide</b></p> <p><b>Manufacturers of lubricants to this specification must be “REGISTERED” to the ISO 9000 (or higher) standard as established by the International Organization for Standardization.</b></p>		<b>Type of Base</b>	<b>Lithium</b>	<b>Worked Penetration Range</b>	<b>265/295</b>	<b>NLGI Number</b>	<b>2 EP</b>	<b>Worked Penetration Tests</b>		<b>60 Strokes</b>	<b>276</b>	<b>100,000 Strokes</b>	<b>302</b>	<b>ASTM Dropping Point</b>	<b>400 Deg. F +, 205 Deg. C +</b>	<b>Timken Test – Pounds on Lever Arm</b>	<b>60 Lbs.</b>	<b>Four Ball Test</b>		<b>OK Load</b>	<b>630 Kg.</b>	<b>Load Wear</b>	<b>103.9 Kg.</b>	<b>Mineral Oil Viscosity</b>		<b>SUS at 210 Deg. F</b>	<b>90-95</b>	<b>cSt at 40 Deg. C</b>	<b>18-19</b>	<b>Polymer</b>	<b>Tenacious – Adhesive</b>
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<p><b>Notes:</b></p> <p><b>To be used as replacement for SPG-12 which is no longer available. Lubriplate 3000 manufactured By Fisk Bros. Refining Company. Special purpose lubricant. No other product will be considered for this application.</b></p>																															
<p><b>Used on (PVSC Equipment):</b> <b>Underwater Bearing; RAS Station; Yantacaw Pump Station; Grit &amp; Screen Facility</b></p>																															
<p><b>Prepared by: KB/FG</b> <b>Date: March 1990</b></p>	<p><b>Revisions:</b> <b>July 1991</b> <b>EWD – Jan 1997:</b> <b>Deleted Part No. 10839 120 Lb. Quarter Size Drum</b> <b>Added Stock No. 0193065 – 35 Lb. Container</b> <b>JAN 1999 – Added ISO 9000 requirement</b></p>																														

**11910.5 Lubricant Specification**

**PASSAIC VALLEY SEWERAGE COMMISSION  
PLANT ENGINEERING DEPARTMENT  
600 Wilson Avenue, Newark, NJ 07105**

**Spec. No.: SPG-13  
Issue Date: JAN 1992  
Sheet No.: 1 of 1**

**PVSC ENGINEERING  
STANDARD**

**TITLE Lithium Soap Base  
Moly Grease EP-0**

**Purpose/Objective: Procurement Specification; Lubricant**

**Description:**

**PVSC Stock Number(s) 35 Lb. Container  
120 Lb. Container**

**Viscosity:**

**cSt at 40°C 320  
cSt at 100°C 15.5 – 22  
NGLI OEP  
Lithium Soap, % 4.0  
Molybdenum Disulfide, % 5.0**

**Dropping Point, °F >345**

**Penetration at 77°F**

**Unworked 285  
Worked 325  
Timken OK Load, Lbs. >40**

**Manufacturers of lubricants to this specification must be “REGISTERED” to the ISO 9000 (or higher) standard as established by the International Organization for Standardization.**

**Notes:**

**Conforming Commercial Products:  
Mobilgrease XHp 320 Mine**

**Prepared by: KB/FG  
Date: Jan. 1992**

**Revisions:**

**EWD – Jan. 1997:  
Added 35 Lb. And 120 Lb. Containers  
Bel-Ray Molylube 126-EP-0 (Deleted Feb. 1999)  
JAN 1999 – Added ISO 9000 requirement  
Jan 2003 Revised Performance Requirements and  
Conforming Products  
APRIL 2015 - Revised**

<b>11910.5 Lubricant Specification</b>	
<b>PASSAIC VALLEY SEWERAGE COMMISSION PLANT ENGINEERING DEPARTMENT 600 Wilson Avenue, Newark, NJ 07105</b>	<b>Spec. No.: SPG-14 Issue Date: JAN 1997 Sheet No.: 1 of 1</b>
<b>PVSC ENGINEERING STANDARD</b>	<b>TITLE Long Term Coupling Grease</b>
<b>Purpose/Objective: Procurement Specification; Lubricant</b>	
<b>Description:</b>	
	<b>PVSC Stock Number(s) – 35 Lb. Pail 14 oz. Cartridge</b>
<b>Ambient Temperature Range</b>	<b>-20°F to 250°F</b>
<b>Min. Base Oil Viscosity</b>	<b>-29°C to 121°C 3,300 SSU @ 100°F</b>
<b>Thickener</b>	<b>715 cSt @ 38°C</b>
<b>Separation Characteristics (Proposed ASTM Centrifuge Test)</b>	<b>7.5% (lithium soap and polyethylene)</b>
<b>NLGI Grade (ASTM D-217)</b>	<b>Very high resistance to centrifuging.</b>
<b>Minimum Dropping Point</b>	<b>1/2</b>
<b>Minimum Timken OK Load</b>	<b>350°F</b>
<b>Additives</b>	<b>177°C</b>
	<b>40 Lbs.</b>
	<b>Ruts &amp; Oxidation inhibitors that affect neither steel Nor synthetic seals.</b>
<b>ISO 9000 Registration is waived for the Manufacturer of this product.</b>	
<b>Notes:</b>	
<b>Conforming Commercial Products:</b>	
<b>Falk Long Term Grease (LTG) <u>NO SUBSTITUTES</u></b>	
<b>Used on (PVSC Equipment):</b>	
<b>Falk Steelflex Couplings</b>	
<b>Prepared by: KB/FG Date: JAN 1997</b>	<b>Revisions: JAN 1999: Unit size was 14 Oz. Cartridge ISO 9000 waiver added</b>
<b>2010 PVSC Spec/lzf</b>	

<b>11910.5 Lubricant Specification</b>	
<b>PASSAIC VALLEY SEWERAGE COMMISSION</b> <b>PLANT ENGINEERING DEPARTMENT</b> <b>600 Wilson Avenue, Newark, NJ 07105</b>	<b>Spec. No.: SPG-15</b> <b>Issue Date: January 2003</b> <b>Sheet No.: 1 of 1</b>
<b>PVSC ENGINEERING</b> <b>STANDARD</b>	<b>TITLE</b> <b>NLGI – 00 EP</b> <b>Semi-Fluid EP Grease</b>
<b>Purpose/Objective: Procurement Specification; Lubricant</b>	
<b>Description:</b> <p style="text-align: right;"><b>PVSC Stock Number(s) – 35 Lb. Container</b></p>	
<b>Structure</b> <b>Soap Type</b> <b>Viscosity</b> cSt at 40 Deg. C cSt at 100 Deg. C <b>NLGI Consistency Grade</b> <b>Timken OK Load Lb., Min.</b> <b>Flash Point</b> <b>Pour Point</b> <b>Viscosity Insex</b> <b>Dropping Point, Deg. F.</b> <b>Penetration, worked 60 strokes</b>	<b>Semifluid</b> <b>Lithium 12 Hydroxystearate Unleaded</b>  <b>112</b> <b>9.8</b> <b>NLGI 00 EP</b> <b>40</b> <b>400° F</b> <b>-11° F</b> <b>49</b> <b>320</b> <b>415</b>
<p>Manufacturers of lubricants to this specification must be “REGISTERED” to the ISO 9000 (or higher) standard as established by the International Organization for Standardization.</p>	
<b>Notes:</b> <p>(1) Conforming Commercial Products:</p>	
<b>Used on (PVSC Equipment):</b>	
<b>Prepared by: JB</b> <b>Date: January 2003</b> <b>Approved by:</b> <b>Date:</b>	<b>Revisions:</b>
<small>2010 PVSC Spec/lzf</small>	

<b>11910.5 Lubricant Specification</b>	
<b>PASSAIC VALLEY SEWERAGE COMMISSION PLANT ENGINEERING DEPARTMENT 600 Wilson Avenue, Newark, NJ 07105</b>	<b>Spec. No.: SPG-16 Issue Date: January 2003 Sheet No.: 1 of 1</b>
<b>PVSC ENGINEERING STANDARD</b>	<b>TITLE NLGI-2-EP High Temperature EP Grease</b>
<b>Purpose/Objective: Procurement Specification; Lubricant</b>	
<b>Description:</b>	
	<b>PVSC Stock Number(s) – 35 Lb. Container 14 oz. Cartridge</b>
<b>Drop Point, Deg. F</b>	<b>&gt;520</b>
<b>Penetration, dmm Worked 60 Strokes</b>	<b>280</b>
<b>Viscosity</b>	
<b>cSt at 40 Deg. C</b>	<b>126</b>
<b>cSt at 100 Deg. C</b>	<b>11.7</b>
<b>Viscosity Index</b>	<b>67</b>
<b>High Temp. Bearing Test, hrs (ASTM D-3336)</b>	<b>3,000</b>
<b>Thickener</b>	<b>Polyurea</b>
<b>NLGI</b>	<b>2-EP</b>
<b>Wheel Bearing Life Test, hrs, (ASTM D-3527)</b>	<b>276</b>
<b>Oil Separation, % loss (ASTM D-1742)</b>	<b>.3</b>
<b>Four – Ball Load Wear Index (ASTM D-</b>	<b>100</b>
<b>Four – Ball Load Weld, kg (ASTM D-2596)</b>	<b>500</b>
<b>Four-Ball Wear Protection Scar Diameter, MM (ASTMD-2596)</b>	<b>0.4</b>
<b>Rust Prevention (ASTM D-1743)</b>	<b>Pass</b>
<b>Water Washout, 175 Deg. F, %</b>	<b>2</b>
<b>Timken OK Load, Lbs. (ASTM D-2509)</b>	<b>60</b>
<b>Manufacturers of lubricants to this specification must be “REGISTERED” to the ISO 9000 (or higher) standard as established by the International Organization for Standardization.</b>	
<b>Notes:</b>	
<b>Conforming Commercial Products: Gulf Gulfgem EP Grease (Product Code 344101)</b>	
<b>Used on (PVSC Equipment):</b>	
<b>Prepared by: JB Date: January 2003</b>	<b>Revisions:</b>
<b>2010 PVSC Spec/lzf</b>	

<b>11910.5 Lubricant Specification</b>		
<b>PASSAIC VALLEY SEWERAGE COMMISSION</b> <b>PLANT ENGINEERING DEPARTMENT</b> <b>600 Wilson Avenue, Newark, NJ 07105</b>	<b>Spec. No.:</b> <b>Issue Date:</b> <b>Sheet No.:</b>	<b>SPG-17</b> <b>JAN 2003</b> <b>1 of 1</b>
<b>PVSC ENGINEERING STANDARD</b>	<b>TITLE</b>	<b>Flexible Coupling Grease</b>
<b>Purpose/Objective: Procurement Specification; Lubricant</b>		
<b>Description:</b>	<b>PVSC Stock Number(s) –</b>	<b>14 oz. Cartridge</b> <b>35 Lb. Pail</b>
<b>Ambient Temperature Range</b>	<b>20°F to 250°F</b>	
<b>Min. Base Oil Viscosity</b>	<b>45cST @ 100°F</b>	
	<b>800 cSt @ 40°C</b>	
<b>Thickener</b>	<b>Lithium 12 Hydrostearate</b>	
<b>NLGI Grade (ASTM D-217)</b>	<b>#1 EP</b>	
<b>Dropping Point</b>	<b>320°F</b>	
<b>Minimum Timken OK Load</b>	<b>50 Lbs.</b>	
<b>Rust Test (ASTM D1743)</b>	<b>Pass</b>	
<b>Bomb Oxidation, 100 hrs at 210°F</b>	<b>20</b>	
<b>Worked Penetration 60 Strokes</b>	<b>310-340</b>	
 <b>Manufacturers of Lubricants to this specification must be “Registered” to the ISO 9000 (or higher) standards at established by the International Organization for Standardization.</b>  		
<b>Notes:</b>		
<b>Conforming Commercial Products:</b>		
<b>Mobil Mobilux EPIII (Product#64131-6)</b>		
<b>Used on (PVSC Equipment):</b>		
<b>Prepared by:</b> <b>Date:</b>	<b>JB</b> <b>JAN 2003</b>	<b>Revisions:</b>
<small>2010 PVSC Spec/lzf</small>		

<b>11910.5 Lubricant Specification</b>	
<b>PASSAIC VALLEY SEWERAGE COMMISSION PLANT ENGINEERING DEPARTMENT 600 Wilson Avenue, Newark, NJ 07105</b>	<b>Spec. No.: SPG-18 Issue Date: JAN 2003 Sheet No.: 1 of 1</b>
<b>PVSC ENGINEERING STANDARD</b>	<b>TITLE Wire Rope Grease</b>
<b>Purpose/Objective: Procurement Specification; Lubricant</b>	
<b>Description:</b>	<b>5 Gallon Container</b>
	<b>PVSC Stock Number(s) –</b>
<b>Min. Base Oil Viscosity</b>	<b>23cST @ 100°F</b>
<b>NLGI Grade (ASTM D-217)</b>	<b>#1</b>
<b>Minimum Dropping Point</b>	<b>145 Deg. F</b>
<b>Rust Test Protection ASTM D1748,hr</b>	<b>300</b>
<b>Salt Spray, ATSM B117,hr</b>	<b>55</b>
<b>Specific Gravity</b>	<b>.884</b>
 <b>Manufacturers of Lubricants to this specification must be “Registered” to the ISO 9000 (or higher) standard as established by the International Organization for Standardization.</b>	
<b>Notes:</b>	
<b>Conforming Commercial Products: Mobilarma 798 (Product # 66721-2)</b>	
<b>Used on (PVSC Equipment):</b>	
<b>Prepared by: JB Date: JAN 2003</b>	<b>Revisions:</b>
<b>2010 PVSC Spec/lzf</b>	

<b>11910.5 Lubricant Specification</b>	
<b>PASSAIC VALLEY SEWERAGE COMMISSION</b> <b>PLANT ENGINEERING DEPARTMENT</b> <b>600 Wilson Avenue, Newark, NJ 07105</b>	<b>Spec. No.: SPG-19</b> <b>Issue Date: Jan 2003</b> <b>Sheet No.: 1 of 1</b>
<b>PVSC ENGINEERING</b> <b>STANDARD</b>	<b>TITLE</b> <b>NLGI – 2 GC LB</b> <b>Corrosion Control Grease</b>
<b>Purpose/Objective: Procurement Specification; Lubricant</b>	
<b>Description:</b>	
	<b>PVSC Stock Number(s) – 14 oz. Cartridge</b> <b>3 oz. Cartridge – 2 per pack</b>
<b>Dropping Point</b>	<b>550°F</b>
<b>Soap Type</b>	<b>Calcium Sulfonate Complex</b>
<b>Viscosity</b>	
<b>cSt at 40 Deg. C</b>	<b>219</b>
<b>cSt at 100 Deg. C</b>	<b>18.7</b>
<b>NLGI Consistency Grade</b>	<b>NLGI 2 GC-LB</b>
<b>Timken OK Load Lb., Min.</b>	<b>55</b>
<b>4-Ball EP Test Weld Load, kg. Min.</b>	<b>500</b>
<b>Wear Test, 40 kg. At 167 Deg. F, 1200 rpm,</b>	<b>.45</b>
<b>1 hr. Scar Diameter, mm</b>	
<p>Manufacturers of lubricants to this specification must be “REGISTERED” to the ISO 9000 (or higher) standard as established by the International Organization for Standardization.</p>	
<b>Notes:</b>	
<b>Conforming Commercial Products:</b> <b>Lubrimatic Marine Trailer Bearing Grease</b>	
<b>Used on (PVSC Equipment):</b>	
<b>Prepared by: JB</b> <b>Date: Jan 2003</b> <b>Approved by:</b> <b>Date:</b>	<b>Revisions:</b>
<small>2010 PVSC Spec/lzf</small>	

<b>11910.5 Lubricant Specification</b>		
<b>PASSAIC VALLEY SEWERAGE COMMISSION</b> <b>PLANT ENGINEERING DEPARTMENT</b> <b>600 Wilson Avenue, Newark, NJ 07105</b>		<b>Spec. No.: SPG-20</b> <b>Issue Date: JAN 2003</b> <b>Sheet No.: 1 of 1</b>
<b>PVSC ENGINEERING</b> <b>STANDARD</b>		<b>TITLE Aluminum Soap Base</b> <b>Moly Grease EP-0</b>
<b>Purpose/Objective: Procurement Specification; Lubricant</b>		
<b>Description:</b>		
	<b>PVSC Stock Number(s)</b>	<b>35 Lb. Container</b>
		<b>120 Lb. Container</b>
<b>Viscosity:</b>		
cSt at 40°C	170	
cSt at 100°C	15.5 – 22	
<b>NGLI</b>	<b>OEP</b>	
<b>Rust Protection ASTM D2266</b>	<b>Pass</b>	
<b>Thickener</b>	<b>Aluminum</b>	
	<b>Complex</b>	
<b>Lubricating Solids</b>	<b>Molyube</b>	
<b>Water Washout ASTM D1264 Loss Weight%</b>	<b>5.4</b>	
<b>Dropping Point, °F</b>	<b>&gt;446</b>	
<b>Penetration, worked (60 Strokes)</b>	<b>370</b>	
<b>Four-Ball Weld Load ASTM D 2596, kg</b>	<b>620</b>	
<b>Four-Ball Load Wear Index, ASTM D 2596, kg</b>	<b>77</b>	
<b>Four-Ball Wear Test Scar Diameter ASTM D2266, mm</b>	<b>0.49</b>	
<p>Manufacturers of lubricants to this specification must be “REGISTERED” to the ISO 9000 (or higher) standard as established by the International Organization for Standardization.</p>		
<b>Notes:</b> <b>Conforming Commercial Products:</b> <b>Bel-Ray Molyube 126EP Grease (Product#2320)</b>		
<b>Prepared by: JB</b> <b>Date: Jan. 2003</b>		<b>Revisions:</b>
<small>2010 PVSC Spec/lzf</small>		

<b>11910.5 Lubricant Specification</b>		
<b>PASSAIC VALLEY SEWERAGE COMMISSION</b> <b>PLANT ENGINEERING DEPARTMENT</b> <b>600 Wilson Avenue, Newark, NJ 07105</b>		<b>Spec. No.: SPG-21</b> <b>Issue Date: JAN 2003</b> <b>Sheet No.: 1 of 1</b>
<b>PVSC ENGINEERING</b> <b>STANDARD</b>		<b>TITLE Aluminum Soap Base</b> <b>Moly Grease EP-1</b>
<b>Purpose/Objective: Procurement Specification; Lubricant</b>		
<b>Description:</b>		
	<b>PVSC Stock Number(s)</b>	<b>120 Lb. Container</b>
<b>Viscosity:</b>		
cSt at 40°C	170	
cSt at 100°C	15.5	
<b>NGLI</b>	<b>1EP</b>	
<b>Rust Protection ASTM D2266</b>	<b>Pass</b>	
<b>Thickener</b>	<b>Aluminum</b>	
	<b>Complex</b>	
<b>Lubricating Solids</b>	<b>Molyube</b>	
<b>Water washout ASTM D1264 Loss Weight%</b>	<b>4.4</b>	
<b>Dropping Point, °F</b>	<b>&gt;500</b>	
<b>Penetration, Worked (60 Strokes)</b>	<b>325</b>	
<b>Four-Ball Weld Load ASTM D 2596 kg</b>	<b>620</b>	
<b>Four-Ball Load Wear Index, ASTM D 2596 kg</b>	<b>77</b>	
<b>Four-Ball Wear Test Scar Diameter ASTM D2266, mm</b>	<b>0.48</b>	
<p>Manufacturers of lubricants to this specification must be "REGISTERED" to the ISO 9000 (or higher) standard as established by the International Organization for Standardization.</p>		
<b>Notes:</b> <b>Conforming Commercial Products:</b> <b>Bel-Ray Molyube 126EP Grease (Product#2322)</b>		
<b>Prepared by: JB</b> <b>Date: Jan. 2003</b>		<b>Revisions:</b>

<b>11910.5 Lubricant Specification</b>		
<b>PASSAIC VALLEY SEWERAGE COMMISSION</b> <b>PLANT ENGINEERING DEPARTMENT</b> <b>600 Wilson Avenue, Newark, NJ 07105</b>		<b>Spec. No.: SPG-22</b> <b>Issue Date: FEB 2007</b> <b>Sheet No.: 1 of 1</b>
<b>PVSC ENGINEERING</b> <b>STANDARD</b>		<b>TITLE Automatic Lubricator</b> <b>NGLI-O Grease</b>
<b>Purpose/Objective: Procurement Specification; Lubricant</b>		
<b>Description:</b>		
	<b>PVSC Stock Number(s)</b>	<b>Box of 20 Canisters</b>
<b>Canister Housing</b>	<b>Metal</b> <b>120 CC</b>	
<b>NGLI</b>	<b>O</b>	
<b>Thickener</b>	<b>Aluminum</b> <b>Complex</b>	
<p><b>Manufacturers of lubricants to this specification must be "REGISTERED" to the ISO 9000 (or higher) standard as established by the International Organization for Standardization.</b></p>		
<b>Notes:</b> <b>Conforming Commercial Products:</b> 1) <b>Perma Classic lubricators with 3 month green activator filled with SFO-6 grease.</b> 2) <b>No substitute will be accepted as this is a special purpose product.</b>		
<b>Prepared by: JB</b> <b>Date: FEB 2007</b>		<b>Revisions:</b>
2010 PVSC Spec/lzf		

<b>11910.5 Lubricant Specification</b>	
<b>PASSAIC VALLEY SEWERAGE COMMISSION PLANT ENGINEERING DEPARTMENT 600 Wilson Avenue, Newark, NJ 07105</b>	<b>Spec. No.: SPG-23 Issue Date: Feb. 2025 Sheet No.: 1 of 1</b>
<b>PVSC ENGINEERING STANDARD</b>	<b>TITLE High Temperature Lithium Grease NLGI #2</b>
<b>Purpose/Objective: Procurement Specification; Lubricant</b>	
<b>Description:</b>	
<b>PVSC Stock Number(s) 2400000001 35 lb. Pail</b>	
<b>Color</b>	<b>Black</b>
<b>Worked Penetration</b>	<b>270</b>
<b>Dropping Point °C (F)</b>	<b>260 (500)</b>
<b>Timken OK Load, Lbs.</b>	<b>70</b>
<b>Rust Test</b>	<b>Pass</b>
<b>Molybdenum Disulfide %</b>	<b>5.0</b>
<b>Water Washout, 79°C</b>	<b>3.5</b>
<b>Copper Corrosion, 24 hours @ 100°C</b>	<b>1b</b>
<b>Four Ball EP</b>	
<b>Weld, kgs.</b>	<b>500</b>
<b>Load Wear Index</b>	<b>67</b>
<b>Four Ball Wear, scar dia, mm</b>	<b>0.553</b>
<b>Base Oil/ Additive Properties:</b>	
<b>Viscosity @ 40°C, cSt</b>	<b>322</b>
<b>Viscosity Index</b>	<b>124</b>
 <b>Manufacturers of lubricants to this specification must be "REGISTERED" to the ISO 9000 (or higher) standard as established by the International Organization for Standardization.</b>	
<b>Notes:</b>	
(1) Conforming Commercial Products: Dyna-Plex 21C, Moly 500+ Hi-Temp #2 Lithium Complex Grease	
(2) NO SUBSTITUTE WILL BE ACCEPTED	
<b>Used on (PVSC Equipment): Westfalia Centrifuge</b>	
<b>Prepared by: SMA Date: Feb. 2025</b>	<b>Revisions:</b>
<small>2010 PVSC Spec/al</small>	

**LUBRICATING OILS, SYNTHETIC SPECIFICATIONS**

<b>PVSC SPEC NO.</b>	<b>DESCRIPTION</b>	<b>INDUSTRIAL / COMMERCIAL DESIGNATION</b>
SY-1-HF	Hydrocarbon Free Oil	HC.8
SY-2-32	Synthetic Hydrocarbon Oil (ISO - 32)	(SHC 624)
SY-3-150	Synthetic Hydrocarbon Oil (ISO - 150)	(SHC 629)
SY-4-220	Synthetic Hydrocarbon Oil (ISO - 220)	(SHC 630)
SY-5-460	Synthetic Hydrocarbon Oil (ISO -460)	(SHC 634)
SY-10	Silicone Diffusion Pump Fluid	DC 704
SY-11	Synthetic Lubricant	(Bel Ray SE/2)
SY-12	Synthetic Lubricant	*
SY-17-320	Synthetic Hydrocarbon Oil (ISO - 320)	(SHC 632)
SY-18	Synthetic Oil Additive	(Bel Ray 6 in 1)
SY-19	Synthetic Compressor Oil	(Sullair 32)
SY-21-320	Synthetic Heavy-Duty Gear Lubricant	(SHC 320)
SY-22	Synthetic Hydraulic Oil (ISO 68)	(SHC 526)
SY-23	Synthetic Heavy-Duty Gear Lubricant	(SHC 460)
SY-24	Synthetic Heavy-Duty Gear Lubricant	(SHC 220)
SY-25	Synthetic Hydrocarbon Oil (ISO-68)	(SHC 626)
SY-26	Synthetic Hydrocarbon Oil (ISO-100)	(SHC627)
SY-27	Compressor Fluid	(Sullair 24KT)
SY-28	Synthetic Hydrocarbon Oil (ISO-68)	(SYNFILM GT)
SY-29	Synthetic Lubricant	(ISO-680)
SY-30-220	Synthetic Lubricant	(ISO-220)
SY-31	Synthetic Lubricant	632385004931

\* More than one product meets this spec. See PVSC Engineering Standard Sheet.

<b>11910.5 Lubricant Specification</b>		
<b>PASSAIC VALLEY SEWERAGE COMMISSION</b> <b>PLANT ENGINEERING DEPARTMENT</b> <b>600 Wilson Avenue, Newark, NJ 07105</b>		<b>Spec. No.: SY-1-HF</b> <b>Issue Date: MARCH 1990</b> <b>Sheet No.: 1 of 1</b>
<b>PVSC ENGINEERING</b> <b>STANDARD</b>		<b>TITLE Hydrocarbon Free Oil</b>
<b>Purpose/Objective: Procurement Specification; Lubricant</b>		
<b>Description:</b>		
	<b>PVSC Stock Number(s) –</b>	<b>16 Oz. Container</b>
<b>Pour Point, Deg. F</b>	<b>-200</b>	
<b>Cloud Point, Deg. F</b>	<b>&lt; -200</b>	
<b><u>Viscosity:</u></b>		
<b>Centistokes @ -65 Deg. F</b>	<b>5.7</b>	
<b>Centipoises</b>	<b>10.0</b>	
<b>Centistokes @ 100 Deg. F</b>	<b>0.80</b>	
<b>Centipoises</b>	<b>1.3</b>	
<b>Centistokes @ 210 Deg. F</b>		
<b>Centipoises</b>		
<b><u>Density:</u></b>		
<b>100 Deg. F</b>	<b>1.71</b>	
<b>160 Deg. F</b>	<b>1.65</b>	
<b>210 Deg. F</b>	<b>1.60</b>	
<b>Rust Inhibitor</b>	<b>Yes</b>	
<b>ISO 9000 Registration is waived for the Manufacturer of this product.</b>		
<b>Notes:</b>		
(1) Conforming Commercial Product: Halocarbon Oil 0.8		
(2) NO SUBSTITUTE WILL BE ACCEPTED		
<b>Used on (PVSC Equipment):</b>		
<b>Prepared by: KB/FG</b> <b>Date: MARCH 1990</b>		<b>Revisions:</b> <b>JAN 1999:</b> <b>Note (2) added – Alternative product note removed.</b> <b>ISO 9000 waiver added</b> <b>Jan 2003- Revised Performance Requirements</b>
<small>2010 PVSC Spec/lzf</small>		

<b>11910.5 Lubricant Specification</b>	
<b>PASSAIC VALLEY SEWERAGE COMMISSION PLANT ENGINEERING DEPARTMENT 600 Wilson Avenue, Newark, NJ 07105</b>	<b>Spec. No.: SY-2-32 Issue Date: MARCH 1990 Sheet No.: 1 of 1</b>
<b>PVSC ENGINEERING STANDARD</b>	<b>TITLE ISO-32 Synthetic Hydrocarbon</b>
<b>Purpose/Objective: Procurement Specification; Lubricant</b>	
<b>Description:</b>  <b>PVSC Stock Number(s) – 55 Gal. Drum</b>	
<b>Gravity, API</b>	<b>35.0-36.0</b>
<b>Specific Gravity, 60/60 Deg. F (15.6/15.6 Deg. C)</b>	<b>.849</b>
<b>Pour Point, Deg. F</b>	<b>-85 Deg. F- -65 Deg. F</b>
<b>Flash Point, Deg. F</b>	<b>464 Deg. F – 484 Deg F</b>
<b>Viscosity</b>	
<b>cSt at 40 Deg. C</b>	<b>30.4 - 32.4</b>
<b>cSt at 100 Deg. C</b>	<b>5.8-6.3</b>
<b>Viscosity Index</b>	<b>138-159</b>
<b>FZG Rating</b>	<b>10</b>
<b>ISO Viscosity Grade</b>	<b>32</b>
<b>Copper Corrosion, ASTM D-130</b>	<b>1B Max</b>
 <b>Manufacturers of lubricants to this specification must be “REGISTERED” to the ISO 9000 (or higher) standard as established by the International Organization for Standardization.</b>	
<b>Notes:</b> <b>Conforming Commercial Products:</b> <b>Mobil M-Shc624</b>	
<b>Used on (PVSC Equipment):</b>	
<b>Prepared by: KB/FG Date: MARCH 1990</b>	<b>Revisions:</b> <b>EWD – Jan. 1997 – Added 55 Gal. Drum</b> <b>Jan. 1999:</b> Deleted oil analysis note. Added ISO 9000 requirement Jan 2003 – Revised Performance Requirements and Conforming Products APRIL 2015 – Revised MAR 2024 – Removed stock code #

<b>11910.5 Lubricant Specification</b>	
<b>PASSAIC VALLEY SEWERAGE COMMISSION PLANT ENGINEERING DEPARTMENT 600 Wilson Avenue, Newark, NJ 07105</b>	<b>Spec. No.: SY-3-150 Issue Date: MARCH 1990 Sheet No.: 1 of 1</b>
<b>PVSC ENGINEERING STANDARD</b>	<b>TITLE ISO-150 Synthetic Hydrocarbon</b>
<b>Purpose/Objective: Procurement Specification; Lubricant</b>	
<b>Description:</b>	
	<b>PVSC Stock Number(s) – 0193035 – 55 Gal. Drum 0193081 – 5 Gal. Container</b>
<b>Gravity, API</b>	<b>32.4 – 33.1</b>
<b>Specific Gravity, 60/60 Deg. F (15.6/15.6 Deg. C)</b>	<b>.869</b>
<b>Pour Point, Deg. F</b>	<b>-49Deg. F - -47 Deg. F</b>
<b>Flash Point, Deg. F</b>	<b>482 Deg. F – 518 Deg. F</b>
<b>Viscosity Index</b>	
<b>cSt at 40 Deg. C</b>	<b>142 – 143</b>
<b>cSt at 100 Deg. C</b>	<b>18.3 – 18.6</b>
<b>Viscosity Index</b>	<b>144 – 147</b>
<b>ISO Viscosity Grade</b>	<b>150</b>
<b>Copper Corrosion, ASTM D-130</b>	<b>1B Max</b>
 <b>Manufacturers of lubricants to this specification must be “REGISTERED” to the ISO 9000 (or higher) standard as established by the International Organization for Standardization.</b>	
<b>Notes:</b>	
<b>Conforming Commercial Products: Mobil M-Shc629 – Group 4 V1 166</b>	
<b>Used on (PVSC Equipment):</b>	
<b>Prepared by: KB/FG Date: MARCH 1990</b>	<b>Revisions: March 1990 – Added 55 Gal. Drum and 0193081 5 Gal. Container Jan. 1999 – Deleted Oil Analysis Note: Added ISO 9000 Requirement. Jan. 2003 – Revised Performance Requirements and Conforming Products. APRIL 2015 - Revised</b>
<b>2010 PVSC Spec/lzf</b>	

<b>11910.5 Lubricant Specification</b>	
<b>PASSAIC VALLEY SEWERAGE COMMISSION PLANT ENGINEERING DEPARTMENT 600 Wilson Avenue, Newark, NJ 07105</b>	<b>Spec. No.: SY-4-220 Issue Date: MAR. 2024 Sheet No.: 1 of 1</b>
<b>PVSC ENGINEERING STANDARD</b>	<b>TITLE ISO – 220 Synthetic Hydrocarbon Oil</b>
<b>Purpose/Objective: Procurement Specification; Lubricant</b>	
<b>Description:</b>	
	<b>PVSC Stock Number(s) 1400000042 – 55 Gal. Drum</b>
<b>AGMA Gravity, API</b>	<b>9005-F16 31.9- 32.4</b>
<b>Timken OK Load, Lb, Min, ASTM D2782</b>	<b>60</b>
<b>Pour Point, Deg. C, Max.</b>	<b>-48</b>
<b>Flash Point, Deg. C, Min.</b>	<b>220</b>
<b>Viscosity</b>	
<b>cSt at 40 Deg. C</b>	<b>210</b>
<b>cSt at 100 Deg. C</b>	<b>28.5</b>
<b>Viscosity Index</b>	<b>169</b>
<b>Copper Corrosion, ASTM D-130</b>	<b>1B Max.</b>
<b>ISO Viscosity Grade</b>	<b>220</b>
<b>Manufacturers of lubricants to this specification must be “REGISTERED” to the ISO 9000 (or higher) standard as established by the International Organization for Standardization.</b>	
<b>Notes:</b>	
<b>Conforming Commercial Products:</b>	
<b>(1) Mobil SHC 630 (Product # 60295-3)</b>	
<b>(2) NO SUBSTITUTES WILL BE ACCEPTED</b>	
<b>Used on (PVSC Equipment): Decant Storage Rake Drives</b>	
<b>Prepared by: SMA Date: MAR 2024</b>	<b>Revisions:</b>
<b>2010 PVSC Spec/lzf</b>	

<b>11910.5 Lubricant Specification</b>	
<b>PASSAIC VALLEY SEWERAGE COMMISSION PLANT ENGINEERING DEPARTMENT 600 Wilson Avenue, Newark, NJ 07105</b>	<b>Spec. No.: SY-5-460 Issue Date: MARCH 1990 Sheet No.: 1 of 1</b>
<b>PVSC ENGINEERING STANDARD</b>	<b>TITLE ISO-460 Synthetic Hydrocarbon</b>
<b>Purpose/Objective: Procurement Specification; Lubricant</b>	
<b>Description:</b>	
	<b>PVSC Stock Number(s) – 0193037 – 55 Gal. Drum</b>
<b>Gravity, API</b>	<b>31.4-31.7</b>
<b>Specific Gravity, 60/60 Deg. F (15.6/15.6 Deg. C)</b>	<b>.867</b>
<b>Pour Point, Deg. F</b>	<b>-44 Deg F - -20 Deg F</b>
<b>Flash Point, Deg. F</b>	<b>482 Deg F - 518 Deg F</b>
<b>Viscosity</b>	
<b>cSt at 40 Deg. C</b>	<b>436-437</b>
<b>cSt at 100 Deg. C</b>	<b>44.9 – 45.1</b>
<b>Viscosity Index</b>	<b>174</b>
<b>FZG Rating</b>	<b>13</b>
<b>ISO Viscosity Grade</b>	<b>460</b>
<b>Copper Corrosion, ASTM D-130</b>	<b>1B Max</b>
<b>Manufacturers of lubricants to this specification must be “REGISTERED” to the ISO 9000 (or higher) standard as established by the International Organization for Standardization.</b>	
<b>Notes:</b>	
<b>Conforming Commercial Product: Mobil M-SHC 634</b>	
<b>Used on (PVSC Equipment):</b>	
<b>Prepared by: KB/FG Date: MARCH 1990</b>	<b>Revisions:</b>
	<b>MARCH 1990 EWD – Jan. 1997 – Added 55 Gal. Drum JAN 1999: Deleted oil analysis note. Added ISO 9000 requirement Jan 2003- Revised Performance Requirements and Conforming Products APRIL 2015 - Revised</b>
<small>2010 PVSC Spec/lzf</small>	

11910.5 Lubricant Specification

<p>PASSAIC VALLEY SEWERAGE COMMISSION          PLANT ENGINEERING DEPARTMENT          600 Wilson Avenue, Newark, NJ 07105</p>	<p>Spec. No.: SY-10          Issue Date: MARCH 1990          Sheet No.: 1 of 1</p>																														
<p><b>PVSC ENGINEERING          STANDARD</b></p>	<p>TITLE Silicon Diffusion Pump Fluid</p>																														
<p>Purpose/Objective: Procurement Specification; Lubricant</p>																															
<p>Description:</p> <p style="text-align: right;">PVSC Stock Number(s) 0193042 - 8.5 Lb. Container</p> <table border="0" style="width: 100%;"> <tr> <td style="width: 60%;">Ultimate Vacuum, torr untrapped</td> <td style="width: 40%; text-align: right;">10<sup>-7</sup> to 10<sup>-8</sup></td> </tr> <tr> <td style="padding-left: 100px;">trapped</td> <td style="text-align: right;">to 10<sup>-11</sup></td> </tr> <tr> <td>Extrapolated Vapor Pressure, torr, (25 Deg. C) 77 Deg. F</td> <td style="text-align: right;">2 X 10<sup>-8</sup></td> </tr> <tr> <td>Specific Gravity @ 25 Deg. C (77 Deg. F)</td> <td style="text-align: right;">1.07</td> </tr> <tr> <td>Viscosity at 25 Deg. C (77 Deg. F), cSt</td> <td style="text-align: right;">39</td> </tr> <tr> <td>Flash Point, Open Cut, Degrees</td> <td style="text-align: right;">221°C (430°F)</td> </tr> <tr> <td>Boiling Point, at 0.5 torr, Degrees</td> <td style="text-align: right;">215°C (419°F)</td> </tr> <tr> <td>Typical Boiler Temperature, Degrees</td> <td style="text-align: right;">220°C (428°F)</td> </tr> <tr> <td>Surface Tension, dynes/cm</td> <td style="text-align: right;">37.3</td> </tr> <tr> <td>Heat of Vaporization, kcal/gm mole</td> <td style="text-align: right;">25.5/200°C (392°F)</td> </tr> <tr> <td>Molecular Description</td> <td style="text-align: right;">Tetramethyltetraphenyltrisiloxane</td> </tr> <tr> <td>Molecular Weight</td> <td style="text-align: right;">484</td> </tr> <tr> <td>Vapor Pressure Equation</td> <td></td> </tr> <tr> <td style="padding-left: 20px;">Log P = A – B/T (P – vapor pressure torr,</td> <td style="text-align: right;">A = 11025</td> </tr> <tr> <td style="padding-left: 20px;">T – absolute temperature degrees K)</td> <td style="text-align: right;">B = 5570</td> </tr> </table> <p>Manufacturers of lubricants to this specification must be “REGISTERED” to the ISO 9000 (or higher) standard as established by the International Organization for Standardization.</p>		Ultimate Vacuum, torr untrapped	10 <sup>-7</sup> to 10 <sup>-8</sup>	trapped	to 10 <sup>-11</sup>	Extrapolated Vapor Pressure, torr, (25 Deg. C) 77 Deg. F	2 X 10 <sup>-8</sup>	Specific Gravity @ 25 Deg. C (77 Deg. F)	1.07	Viscosity at 25 Deg. C (77 Deg. F), cSt	39	Flash Point, Open Cut, Degrees	221°C (430°F)	Boiling Point, at 0.5 torr, Degrees	215°C (419°F)	Typical Boiler Temperature, Degrees	220°C (428°F)	Surface Tension, dynes/cm	37.3	Heat of Vaporization, kcal/gm mole	25.5/200°C (392°F)	Molecular Description	Tetramethyltetraphenyltrisiloxane	Molecular Weight	484	Vapor Pressure Equation		Log P = A – B/T (P – vapor pressure torr,	A = 11025	T – absolute temperature degrees K)	B = 5570
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<p>Notes:</p> <p>Conforming Commercial Products:</p> <p style="padding-left: 40px;">Dow Corning 704          Diffusion Pump Fluid</p>																															
<p>Used on (PVSC Equipment):</p> <p style="text-align: center;">Gage Isolation Fluid</p>																															
<p>Prepared by: KB/FG          Date: MARCH 1990</p>	<p>Revisions:          MARCH 1990          EWD – Jan. 1997 – Added Gage Isolation Fluid          JAN 1999 – Added ISO 9000 requirement</p>																														

11910.5 Lubricant Specification	
<b>PASSAIC VALLEY SEWERAGE COMMISSION</b> <b>PLANT ENGINEERING DEPARTMENT</b> <b>600 Wilson Avenue, Newark, NJ 07105</b>	<b>Spec. No.: SY-11</b> <b>Issue Date: MARCH 1990</b> <b>Sheet No.: 1 of 1</b>
<b>PVSC ENGINEERING STANDARD</b>	<b>TITLE (BEL RAY SE2)</b> <b>Synthetic Lubricant</b>
<b>Purpose/Objective: Procurement Specification; Lubricant</b>	
<b>Description:</b>	
	<b>PVSC Stock Number(s) 0193043 400 Lbs.</b>
<b>Specific Gravity 60 Deg./60 Deg. F</b>	<b>0.925</b>
<b>Color</b>	<b>Pale Yellow-Green</b>
<b>Viscosity</b>	
<b>cSt at 40 Deg. C</b>	<b>40</b>
<b>cst at 100 Deg. C</b>	<b>6</b>
<b>Viscosity Index Min.</b>	<b>183</b>
<b>Flash Point Deg. F</b>	<b>392</b>
<b>Fire Point Deg. F</b>	<b>410</b>
<b>Pour Point Deg. F</b>	<b>-75</b>
<b>Timken EP Value</b>	
<b>OK Min. Load Lbs.</b>	<b>80</b>
<b>Max. Wear Scar @ 80 Lbs. mm</b>	<b>1.15</b>
<b>Falex Load, lbs. min. 3000 Lbs. Gage</b>	<b>2,500</b>
<b>Corrosion Test ASTM 665A</b>	<b>Pass</b>
<b>Corrosion Test ASTM 665B</b>	<b>Pass</b>
<b>Elastomer Swell Tendency</b>	<b>Nil</b>
<p>Manufacturers of Lubricants to this specification must be "REGISTERED" to the ISO 9000 (or higher) standards established by the International Organization for Standardization.</p>	
<b>Notes:</b>	
<b>Conforming Commercial Products:</b> <b>Bel-Ray SE2 Grade 50</b>	
<b>Used on (PVSC Equipment):</b>	
<b>Prepared by: KB/FG</b> <b>Date: MARCH 1990</b>	<b>Revisions:</b> <b>MARCH 1990</b> <b>EWD – Jan. 1997 – Added 400 Lbs.</b> <b>JAN 1999 – ISO 9000 waiver added</b> <b>Jan 2003 – Added ISO 9000 Requirement and Revised Performance Requirements</b>
<small>2010 PVSC Spec/lzf</small>	

<b>11910.5 Lubricant Specification</b>	
<b>PASSAIC VALLEY SEWERAGE COMMISSION</b> <b>PLANT ENGINEERING DEPARTMENT</b> <b>600 Wilson Avenue, Newark, NJ 07105</b>	<b>Spec. No.: SY-12</b> <b>Issue Date: MARCH 1990</b> <b>Sheet No.: 1 of 1</b>
<b>PVSC ENGINEERING STANDARD</b>	<b>TITLE Synthetic Diester Lubricant</b>
<b>Purpose/Objective: Procurement Specification; Lubricant</b>	
<b>Description:</b>	
	<b>PVSC Stock Number(s) 0193045 55 Gal.</b>
<b>ISO Viscosity Grade</b>	<b>100</b>
<b>Viscosity @ 40 Deg. C cSt</b>	<b>95-110</b>
<b>Viscosity @ 100 Deg. C cSt</b>	<b>9.4-11.5</b>
<b>Viscosity Index</b>	<b>78-94</b>
<b>Pour Point Deg. C (Deg. F)</b>	<b>-30 to -36 (-22) to (-32.8)</b>
<b>Flash Point Deg. C (Deg. F)</b>	<b>230 – 270 (446 – 518)</b>
<b>Autoignition Temperature Deg. F</b>	<b>&gt;750</b>
<b>Conradson Carbon Residue, %</b>	<b>&lt;0.02</b>
<b>Evaporation</b>	<b>-1%</b>
<b>Demulsibility @ 54 Deg. C (130 Deg. F)</b> <b>MI oil/water/emulsion (minutes)</b>	<b>39 / 38 / 3 (60)</b>
<b>Foaming Tendency Sequence I, II, III</b>	<b>Nil</b>
<b>Copper Strip Corrosion, 3 Hrs. @ 100 Deg. C (212 Deg. F)</b>	<b>1A</b>
<b>Specific Gravity 25 Deg. C (77 Deg. F)</b>	<b>0.93 – 0.95</b>
<b>Manufacturer of Lubricants to this specification must be “REGISTERED” to the ISO 9000 (or higher) standards as established by the International Organization for Standardization.</b>	
<b>Notes:</b>	
<b>(1) Conforming Commercial Products:</b> <b>Anderol 500</b> <b>Chemlube 501</b> <b>Summit DSL-100</b>	
<b>(2) NO SUBSTITUTE WILL BE ACCEPTED</b>	
<b>Used on (PVSC Equipment):</b>	
<b>Process Air Compressors (PAC)</b>	
<b>Prepared by: KB/FG</b>  <b>Date: MARCH 1990</b>	<b>Revisions:</b> <b>07/16/93: Conforming Commercial Products</b> <b>EWD – Jan. 1997: Changed 400 Lbs. to 55 Gal. and</b> <b>Added Process Air Compressors (PAC)</b> <b>JAN 1999: Note (2) added;</b> <b>ISO 9000 waiver added</b> <b>Jan 2003 – Added ISO 9000 Requirement and Revised</b> <b>Performance Requirement</b> <b>Nov 2018 – Added Summit DSL-100 and Revised</b>
<b>2010 PVSC Spec/lzf</b>	

**11910.5 Lubricant Specification**

<p><b>PASSAIC VALLEY SEWERAGE COMMISSIONERS PLANT ENGINEERING DEPARTMENT 600 Wilson Avenue, Newark, NJ 07105</b></p>	<p><b>Spec. No.: SY-15-320</b> <b>Issue Date:</b> <b>Sheet No.: 1 of 1</b></p>
<p><b>PVSC ENGINEERING STANDARD</b></p>	<p>TITLE</p>
<p><b>Purpose/Objective: Procurement Specification; Lubricant</b></p>	
<p><b>Description:</b></p> <p style="text-align: center;"><b>PVSC Stock Number(s)</b></p>	
<p><b>Notes:</b> <b>Conforming Commercial Products:</b></p>	
<p><b>Used on (PVSC Equipment):</b></p>	
<p><b>Prepared by:</b> <b>Date:</b></p> <p><b>Approved by:</b> <b>Date:</b></p>	<p><b>Revisions:</b></p>

<b>11910.5 Lubricant Specification</b>		
<b>PASSAIC VALLEY SEWERAGE COMMISSION PLANT ENGINEERING DEPARTMENT 600 Wilson Avenue, Newark, NJ 07105</b>	<b>Spec. No.:</b>	<b>SY-17-320</b>
	<b>Issue Date:</b>	<b>MARCH 1990</b>
	<b>Sheet No.:</b>	<b>1 of 1</b>
<b>PVSC ENGINEERING STANDARD</b>	<b>TITLE</b>	<b>ISO - 320 Synthetic Hydrocarbon</b>
<b>Purpose/Objective: Procurement Specification; Lubricant</b>		
<b>Description:</b>	<b>PVSC Stock Number(s)</b>	<b>55 Gal. Drum</b>
<b>Gravity, API</b>	<b>31.7-32.1</b>	
<b>Specific Gravity, 60/60 Deg. F (15.6/15.6 Deg. C)</b>	<b>.867</b>	
<b>Pour Point, Deg. F</b>	<b>-44 Deg. F - -35 Deg. F</b>	
<b>Flash Point, Deg. F</b>	<b>482 Deg F - 518 Deg F</b>	
<b>Viscosity</b>		
<b>cSt at 40 Deg. C</b>	<b>304-326</b>	
<b>cSt at 100 Deg. C</b>	<b>33.2-38.6</b>	
<b>Viscosity Index</b>	<b>172</b>	
<b>FZG Rating</b>	<b>13</b>	
<b>ISO Viscosity Grade</b>	<b>320</b>	
<b>Copper Corrosion, ASTM D130 24 h at 212 Deg. F (100 Deg. C)</b>	<b>1B Max</b>	
<b>Manufacturers of lubricants to this specification must be "REGISTERED" to the ISO 9000 (or higher) standard as established by the International Organization for Standardization.</b>		
<b>Notes:</b>		
<b>Conforming Commercial Products: Mobil M-SHC 632</b>		
<b>Used on (PVSC Equipment):</b>		
<b>Oxygenation Tanks, Gear Reducers</b>		
<b>Prepared by:</b>	<b>KB/FG</b>	<b>Revisions:</b>
<b>Date:</b>	<b>MARCH 1990</b>	<b>JAN 1999:</b>
		Deleted oil analysis note;
		Added ISO 9000 requirement
		<b>Jan 2003 – Revised Performance Requirements and Conforming Products</b>
		<b>APRIL 2015 - Revised</b>
<b>2010 PVSC Spec/lzf</b>		

<b>11910.5 Lubricant Specification</b>		
<b>PASSAIC VALLEY SEWERAGE COMMISSION</b> <b>PLANT ENGINEERING DEPARTMENT</b> <b>600 Wilson Avenue, Newark, NJ 07105</b>		<b>Spec. No.: SY-18</b> <b>Issue Date: MARCH 1990</b> <b>Sheet No.: 1 of 1</b>
<b>PVSC ENGINEERING</b> <b>STANDARD</b>		<b>TITLE Synthetic Oil Additive</b>
<b>Purpose/Objective: Procurement Specification; Lubricant</b>		
<b>Description:</b>		
	<b>PVSC Stock Number(s)</b>	<b>Case – 4 One Gal. Cans</b>
<b>Specific Gravity</b>	<b>0.8178</b>	
<b>Flash Point, Deg. F, Min.</b>	<b>100</b>	
<b>Flash Point, Deg. F, Min. of Fluid</b> Remaining after solvent portion has evaporated	<b>400</b>	
<b>Fire Point, Deg. F, Min. of Fluid</b> Remaining after solvent portion has evaporated	<b>425</b>	
<b>Pour Point, Deg. F, Min. of Fluid</b> Remaining after solvent portion has evaporated	<b>0</b>	
<b>Film Strength Falex Load Lbs., Min.</b>	<b>1,500</b>	
<b>Timken OK Load of Fluid</b> Remaining after solvent portion has evaporated	<b>25</b>	
<b>Rust-Preventive Characteristics</b> in accordance with ASTM D-665-50T	<b>Pass</b>	
<p>Manufacturers of Lubricants to the specification must be "REGISTERED" to the ISO 9000 (or higher) standards as established by the International Organization for Standardization.</p>		
<b>Notes:</b> <b>Conforming Commercial Products:</b> <p style="text-align: center;"><b>Bel-Ray 6 in 1 Fluid, Manufactured by Bel-Ray Company</b></p> <p style="text-align: center;"><b><u>CONSULT PLANT ENGINEERING DEPARTMENT PRIOR TO USE.</u></b></p>		
<b>Used on (PVSC Equipment):</b> <b>Use as an additive to Bel-Ray SE2 Synthetic Lubricating Oil for flushing purposes.</b>		
<b>Prepared by: KB/FG</b> <b>Date: MARCH 1990</b>	<b>Revisions:</b> <b>JAN 1999 – ISO 9000 waiver added</b> <b>Jan 2003 – Added ISO 9000 Requirement</b>	
<small>2010 PVSC Spec/lzf</small>		

11910.5 Lubricant Specification

<p>PASSAIC VALLEY SEWERAGE COMMISSIONERS          PLANT ENGINEERING DEPARTMENT          600 Wilson Avenue, Newark, NJ 07105</p>	<p>Spec. No.: SY-19          Issue Date: JAN 1992          Sheet No.: 1 of 1</p>														
<p><b>PVSC ENGINEERING          STANDARD</b></p>	<p>TITLE Sullube – 32          Synthetic Compressor Oil</p>														
<p>Purpose/Objective: Procurement Specification; Lubricant</p>															
<p>Description:</p> <p style="text-align: right;">PVSC Stock Number(s) 0724038 – 5 Gal. Container</p> <p>Viscosity:</p> <table data-bbox="162 588 1136 903"> <tr> <td>cSt at 100°C (212°F)</td> <td>7.3</td> </tr> <tr> <td>cSt at 98.9°C (210°F)</td> <td>7.4</td> </tr> <tr> <td>cSt at 40°C (104°F)</td> <td>37.0</td> </tr> <tr> <td>cSt at 0°C (32°F)</td> <td>330.0</td> </tr> <tr> <td>cSt at -17.8°C (0°F)</td> <td>1500.0</td> </tr> <tr> <td>SSU at 98.9°C (210°F)</td> <td>50.4</td> </tr> <tr> <td>SSU at 37.8°C (100°F)</td> <td>189.0</td> </tr> </table> <p>Viscosity Index 163</p> <p>SAE 5W – 20</p> <p>Flash Point °F 505</p> <p>Specific Gravity at 24°C (77°F) 0.9813</p> <p>Rotary Bomb Oxidation Test (Hrs.) 18.0</p> <p>Color: Green Clear Fluid</p> <p>Manufacturers of lubricants to this specification must be “REGISTERED” to the ISO 9000 (or higher) standard as established by the International Organization for Standardization.</p>		cSt at 100°C (212°F)	7.3	cSt at 98.9°C (210°F)	7.4	cSt at 40°C (104°F)	37.0	cSt at 0°C (32°F)	330.0	cSt at -17.8°C (0°F)	1500.0	SSU at 98.9°C (210°F)	50.4	SSU at 37.8°C (100°F)	189.0
cSt at 100°C (212°F)	7.3														
cSt at 98.9°C (210°F)	7.4														
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cSt at 0°C (32°F)	330.0														
cSt at -17.8°C (0°F)	1500.0														
SSU at 98.9°C (210°F)	50.4														
SSU at 37.8°C (100°F)	189.0														
<p>Notes:</p> <p>Conforming Commercial Products:</p> <p>Sullube – 32 Manufactured by Dow Chemical          Product Code: 02434 – <u>NO SUBSTITUTES</u></p>															
<p>Used on (PVSC Equipment):</p>															
<p>Prepared by: KB/FG          Date: JAN 1992</p>	<p>Revisions:          JAN 1999 – Added ISO 9000 requirement</p>														

**11910.5 Lubricant Specification**

<p><b>PASSAIC VALLEY SEWERAGE COMMISSIONERS PLANT ENGINEERING DEPARTMENT 600 Wilson Avenue, Newark, NJ 07105</b></p>	<p><b>Spec. No.:</b> <u>SY-20</u> <b>Issue Date:</b> _____ <b>Sheet No.:</b> <u>1 of 1</u></p>
<p><b>PVSC ENGINEERING STANDARD</b></p>	<p>TITLE</p>
<p><b>Purpose/Objective:</b> Procurement Specification; Lubricant</p>	
<p><b>Description:</b></p> <p style="text-align: center;">PVSC Stock Number(s)</p>	
<p><b>Notes:</b></p> <p><b>Conforming Commercial Products:</b></p> <p>Manufacturers of lubricants to this specification must be "REGISTERED" to the ISO 9000 (or higher) standard as established by the International Organization for Standardization.</p>	
<p><b>Used on (PVSC Equipment):</b></p>	
<p><b>Prepared by:</b> <b>Date:</b></p>	<p><b>Revisions:</b></p>

<b>11910.5 Lubricant Specification</b>		
<b>PASSAIC VALLEY SEWERAGE COMMISSION PLANT ENGINEERING DEPARTMENT 600 Wilson Avenue, Newark, NJ 07105</b>	<b>Spec. No.:</b> <b>Issue Date:</b> <b>Sheet No.:</b>	<b>SY-21-320 JAN. 1999 1 of 1</b>
<b>PVSC ENGINEERING STANDARD</b>	<b>TITLE</b>	<b>ISO - 320 Synthetic Heavy-Duty Gear Lubricant</b>
<b>Purpose/Objective: Procurement Specification; Lubricant</b>		
<b>Description:</b>		
	<b>PVSC Stock Number(s)</b>	<b>55 Gal. Drum</b>
<b>AGMA</b>	<b>6EP</b>	
<b>Gravity, API</b>	<b>30.1</b>	
<b>Timken OK Load, Lb, Min, ASTM D2782</b>	<b>60</b>	
<b>Pour Point, Deg. F (Deg. C), Max.</b>	<b>-30 (-34)</b>	
<b>Flash Point, Deg. F (Deg. C), Min.</b>	<b>450 (232)</b>	
<b>Viscosity</b>		
<b>cSt at 40 Deg. C</b>	<b>305</b>	
<b>cSt at 100 Deg. C</b>	<b>34.6</b>	
<b>Viscosity Index</b>	<b>155</b>	
<b>Color, ASTM</b>	<b>0.5</b>	
<b>ISO Viscosity Grade</b>	<b>320</b>	
<b>Manufacturers of lubricants to this specification must be "REGISTERED" to the ISO 9000 (or higher) standard as established by the International Organization for Standardization.</b>		
<b>Notes:</b>		
<b>Conforming Commercial Products:</b>		
<b>(1) Mobil SHC GEAR 320</b>		
<b>(2) NO SUBSTITUTE WILL BE ACCEPTED</b>		
<b>Used on (PVSC Equipment):</b>		
<b>Oxygenation Tanks, Gear Reducers (Lightnin)</b>		
<b>Prepared by:</b> <b>Date:</b>	<b>FG/JR JAN 1999</b>	<b>Revisions:</b> <b>JAN 1999 – Added ISO 9000 requirement</b> <b>APRIL 2015 - Revised</b>
<b>2010 PVSC Spec/lzf</b>		

<b>11910.5 Lubricant Specification</b>		
<b>PASSAIC VALLEY SEWERAGE COMMISSION</b> <b>PLANT ENGINEERING DEPARTMENT</b> <b>600 Wilson Avenue, Newark, NJ 07105</b>		<b>Spec. No.: SY-22</b> <b>Issue Date: JAN 2003</b> <b>Sheet No.: 1 of 1</b>
<b>PVSC ENGINEERING STANDARD</b>		<b>TITLE ISO – 68</b> <b>Synthetic Hydraulic Oil</b>
<b>Purpose/Objective: Procurement Specification; Lubricant</b>		
<b>Description:</b>		
	<b>PVSC Stock Number(s)</b>	<b>55 Gal. Drum</b>
<b>Rust Protection ASTM D665</b>	<b>Pass</b>	
<b>Specific Gravity, 60/60 Deg. F (15.6/15.6 Deg.C)</b>	<b>.852</b>	
<b>Pour Point, Deg. F (Deg. C), Max.</b>	<b>-55 (-48)</b>	
<b>Flash Point, Deg. F (Deg. C), Min.</b>	<b>400 (204)</b>	
<b>Viscosity</b>		
<b>cSt at 40 Deg. C</b>	<b>68</b>	
<b>cSt at 100 Deg. C</b>	<b>11.5</b>	
<b>Viscosity Index</b>	<b>145</b>	
<b>Color, ASTM</b>	<b>1.0</b>	
<b>ISO Viscosity Grade</b>	<b>68</b>	
<p>Manufacturers of lubricants to this specification must be "REGISTERED" to the ISO 9000 (or higher) standard as established by the International Organization for Standardization.</p>		
<b>Notes:</b> <b>Conforming Commercial Products:</b> <b>Mobil SHC 526 (Product#603068)</b>		
<b>Used on (PVSC Equipment):</b>		
<b>Prepared by: JB</b> <b>Date: JAN 2003</b>		<b>Revisions:</b>
<small>2010 PVSC Spec/lzf</small>		

<b>11910.5 Lubricant Specification</b>		
<b>PASSAIC VALLEY SEWERAGE COMMISSION</b> <b>PLANT ENGINEERING DEPARTMENT</b> <b>600 Wilson Avenue, Newark, NJ 07105</b>		<b>Spec. No.: SY-23</b> <b>Issue Date: JAN. 2003</b> <b>Sheet No.: 1 of 1</b>
<b>PVSC ENGINEERING STANDARD</b>		<b>TITLE ISO – 460</b> <b>Synthetic Heavy-Duty Gear Lubricant</b>
<b>Purpose/Objective: Procurement Specification; Lubricant</b>		
<b>Description:</b>		
	<b>PVSC Stock Number(s)</b>	<b>55 Gal. Drum</b>
<b>AGMA#</b>	<b>7 EP</b>	
<b>Gravity, API</b>	<b>28.6</b>	
<b>Timken OK Load, Lb, Min, ASTM D2782</b>	<b>60</b>	
<b>Pour Point, Deg. F (Deg. C), Max.</b>	<b>-20 (-29)</b>	
<b>Flash Point, Deg. F (Deg. C), Min.</b>	<b>450 (232)</b>	
<b>Viscosity</b>		
<b>cSt at 40 Deg. C</b>	<b>440</b>	
<b>cSt at 100 Deg. C</b>	<b>45.4</b>	
<b>Viscosity Index</b>	<b>155</b>	
<b>Color, ASTM</b>	<b>0.5</b>	
<b>ISO Viscosity Grade</b>	<b>460</b>	
<p>Manufacturers of lubricants to this specification must be “REGISTERED” to the ISO 9000 (or higher) standard as established by the International Organization for Standardization.</p>		
<b>Notes:</b> <b>Conforming Commercial Products:</b> <b>Mobil SHC GEAR 460</b>		
<b>Used on (PVSC Equipment):</b>		
<b>Prepared by: JB</b> <b>Date: JAN 2003</b>		<b>Revisions:</b> <b>APRIL 2015 - Revised</b>

<b>11910.5 Lubricant Specification</b>		
<b>PASSAIC VALLEY SEWERAGE COMMISSION</b> <b>PLANT ENGINEERING DEPARTMENT</b> <b>600 Wilson Avenue, Newark, NJ 07105</b>		<b>Spec. No.: SY-24</b> <b>Issue Date: JAN. 2003</b> <b>Sheet No.: 1 of 1</b>
<b>PVSC ENGINEERING STANDARD</b>		<b>TITLE ISO – 220</b> <b>Synthetic Heavy-Duty Gear Lubricant</b>
<b>Purpose/Objective: Procurement Specification; Lubricant</b>		
<b>Description:</b>		
	<b>PVSC Stock Number(s)</b>	<b>55 Gal. Drum</b>
<b>AGMA</b>	<b>5 EP</b>	
<b>Gravity, API</b>	<b>28.2</b>	
<b>Timken OK Load, Lb, Min, ASTM D2782</b>	<b>60</b>	
<b>Pour Point, Deg. F (Deg. C), Max.</b>	<b>-35 (-37)</b>	
<b>Flash Point, Deg. F (Deg. C), Min.</b>	<b>428 (220)</b>	
<b>Viscosity</b>		
<b>cSt at 40 Deg. C</b>	<b>210</b>	
<b>cSt at 100 Deg. C</b>	<b>25</b>	
<b>Viscosity Index</b>	<b>152</b>	
<b>Color, ASTM</b>	<b>0.5</b>	
<b>ISO Viscosity Grade</b>	<b>220</b>	
<p>Manufacturers of lubricants to this specification must be “REGISTERED” to the ISO 9000 (or higher) standard as established by the International Organization for Standardization.</p>		
<b>Notes:</b> <b>Conforming Commercial Products:</b> <b>(1) Mobil SHC GEAR 220</b> <b>(2) NO SUBSTITUTES WILL BE ACCEPTED</b>		
<b>Used on (PVSC Equipment):</b>		
<b>Prepared by: JB</b> <b>Date: JAN 2003</b>		<b>Revisions:</b> <b>APRIL 2015 - Revised</b>
<small>2010 PVSC Spec/lzf</small>		

<b>11910.5 Lubricant Specification</b>		
<b>PASSAIC VALLEY SEWERAGE COMMISSION</b> <b>PLANT ENGINEERING DEPARTMENT</b> <b>600 Wilson Avenue, Newark, NJ 07105</b>		<b>Spec. No.: SY-25</b> <b>Issue Date: JAN. 2003</b> <b>Sheet No.: 1 of 1</b>
<b>PVSC ENGINEERING STANDARD</b>		<b>TITLE ISO – 68</b> <b>Synthetic Heavy-Duty Gear Lubricant</b>
<b>Purpose/Objective: Procurement Specification; Lubricant</b>		
<b>Description:</b>		
	<b>PVSC Stock Number(s)</b>	<b>55 Gal. Drum</b>
	<b>1200000065</b>	<b>5 Gal. Size</b>
<b>Gravity, API</b>	<b>33.6</b>	
<b>Specific Gravity, 60/60 Deg. F (15.6/15.6 Deg. C)</b>	<b>.858</b>	
<b>Pour Point, Deg. F (Deg. C), Max.</b>	<b>-54 (-48)</b>	
<b>Flash Point, Deg. F (Deg. C), Min.</b>	<b>447 (231)</b>	
<b>Viscosity</b>		
<b>cSt at 40 Deg. C</b>	<b>66</b>	
<b>cSt at 100 Deg. C</b>	<b>10.3</b>	
<b>Viscosity Index</b>	<b>144</b>	
<b>FZG Rating</b>	<b>11</b>	
<b>ISO Viscosity Grade</b>	<b>68</b>	
<b>Copper Corrosion, ASTM D-130</b>	<b>1B Max</b>	
<p>Manufacturers of lubricants to this specification must be “REGISTERED” to the ISO 9000 (or higher) standard as established by the International Organization for Standardization.</p>		
<b>Notes:</b> <b>Conforming Commercial Products:</b> <b>(1) Mobil SHC GEAR 626</b>		
<b>Used on (PVSC Equipment):</b>		
<b>Prepared by: JB</b> <b>Date: JAN 2003</b>		<b>Revisions:</b> <b>APRIL 2015 – Revised</b> <b>MAR 2024 – added 5 Gal. size and stock code</b>
<small>2010 PVSC Spec/lzf</small>		

<b>11910.5 Lubricant Specification</b>		
<b>PASSAIC VALLEY SEWERAGE COMMISSION</b> <b>PLANT ENGINEERING DEPARTMENT</b> <b>600 Wilson Avenue, Newark, NJ 07105</b>		<b>Spec. No.: SY-26</b> <b>Issue Date: FEB 2007</b> <b>Sheet No.: 1 of 1</b>
<b>PVSC ENGINEERING STANDARD</b>		<b>TITLE ISO – 100</b> <b>Synthetic Heavy-Duty Gear Lubricant</b>
<b>Purpose/Objective: Procurement Specification; Lubricant</b>		
<b>Description:</b>		
		<b>PVSC Stock Number(s) 55 Gal. Drum – 5 Gal. Pail</b>
<b>Specific Gravity, 60/60 Deg. F (15.6/15.6 Deg. C)</b>		<b>.86</b>
<b>Pour Point, Deg. F (Deg. C), Max.</b>		<b>-43.6</b>
<b>Flash Point, Deg. F (Deg. C), Min.</b>		<b>478.4</b>
<b>Viscosity</b>		
<b>cSt at 40 Deg. C</b>		<b>99.1</b>
<b>cSt at 100 Deg. C</b>		<b>13.9</b>
<b>Viscosity Index</b>		<b>143</b>
<b>FZG Rating</b>		<b>13</b>
<b>ISO Viscosity Grade</b>		<b>100</b>
<b>Copper Corrosion, ASTM D-130</b>		<b>1B Max</b>
<p>Manufacturers of lubricants to this specification must be “REGISTERED” to the ISO 9000 (or higher) standard as established by the International Organization for Standardization.</p>		
<b>Notes:</b> <b>Conforming Commercial Products:</b> <b>(1) Mobil SHC GEAR 100</b>		
<b>Used on (PVSC Equipment):</b>		
<b>Prepared by: JB</b> <b>Date: FEB 2007</b>		<b>Revisions:</b> <b>APRIL 2015 - Revised</b>
<small>2010 PVSC Spec/lzf</small>		

11910.5 Lubricant Specification

<p>PASSAIC VALLEY SEWERAGE COMMISSIONERS          PLANT ENGINEERING DEPARTMENT          600 Wilson Avenue, Newark, NJ 07105</p>	<p>Spec. No.: SY-27          Issue Date: FEB 2007          Sheet No.: 1 of 1</p>						
<p><b>PVSC ENGINEERING STANDARD</b></p>	<p>TITLE Sullair 24KT          Compressor Fluid</p>						
<p>Purpose/Objective: Procurement Specification; Lubricant</p>							
<p>Description:</p> <p style="text-align: right;">PVSC Stock Number(s) 5 Gal. Container</p> <p>Viscosity:</p> <table data-bbox="162 567 1088 693"> <tr> <td>cSt at 100°C (212°F)</td> <td>9.0</td> </tr> <tr> <td>cSt at 40°C (104°F)</td> <td>21.0</td> </tr> <tr> <td>cSt at -17.8°C (0°F)</td> <td>95</td> </tr> </table> <p>Viscosity Index (ASTM D227) 420</p> <p>Flash Point °F 400</p> <p>Specific Gravity at 25°C 0.97</p> <p>Manufacturers of lubricants to this specification must be "REGISTERED" to the ISO 9000 (or higher) standard as established by the International Organization for Standardization.</p>		cSt at 100°C (212°F)	9.0	cSt at 40°C (104°F)	21.0	cSt at -17.8°C (0°F)	95
cSt at 100°C (212°F)	9.0						
cSt at 40°C (104°F)	21.0						
cSt at -17.8°C (0°F)	95						
<p>Notes:</p> <p>Conforming Commercial Products:</p> <p>Sullair 24KT  <u>NO SUBSTITUTES AS THIS IS A SPECIAL PURPOSE PRODUCT</u></p>							
<p>Used on (PVSC Equipment):</p>							
<p>Prepared by: JB          Date: FEB 2007</p>	<p>Revisions:</p>						

11910.5 Lubricant Specification																													
<b>PASSAIC VALLEY SEWERAGE COMMISSION</b> <b>PLANT ENGINEERING DEPARTMENT</b> <b>600 Wilson Avenue, Newark, NJ 07105</b>	<b>Spec. No.:</b> SY-28 <b>Issue Date:</b> FEB 2007 <b>Sheet No.:</b> 1 of 1																												
<b>PVSC ENGINEERING STANDARD</b>	<b>TITLE</b> ISO – 68 <b>Synthetic Heavy-Duty Gear Lubricant</b>																												
<b>Purpose/Objective: Procurement Specification; Lubricant</b>																													
<b>Description:</b> <table border="0" style="width: 100%; margin-left: 200px;"> <tr> <td></td> <td style="text-align: center;"><b>PVSC Stock Number(s)</b></td> <td style="text-align: center;"><b>55 Gal. Drum – 5 Gallon</b></td> </tr> <tr> <td><b>Pour Point, Deg. F (Deg. C), Max.</b></td> <td style="text-align: center;"><b>-65</b></td> <td></td> </tr> <tr> <td><b>Flash Point, Deg. F (Deg. C), Min.</b></td> <td style="text-align: center;"><b>495</b></td> <td></td> </tr> <tr> <td colspan="3"> </td> </tr> <tr> <td colspan="3"><b>Viscosity</b></td> </tr> <tr> <td style="padding-left: 20px;"><b>cSt at 40 Deg. C</b></td> <td style="text-align: center;"><b>68.0</b></td> <td></td> </tr> <tr> <td style="padding-left: 20px;"><b>cSt at 100 Deg. C</b></td> <td style="text-align: center;"><b>10.1</b></td> <td></td> </tr> <tr> <td><b>Viscosity Index</b></td> <td style="text-align: center;"><b>133</b></td> <td></td> </tr> <tr> <td><b>ISO Viscosity Grade</b></td> <td style="text-align: center;"><b>68</b></td> <td></td> </tr> </table>				<b>PVSC Stock Number(s)</b>	<b>55 Gal. Drum – 5 Gallon</b>	<b>Pour Point, Deg. F (Deg. C), Max.</b>	<b>-65</b>		<b>Flash Point, Deg. F (Deg. C), Min.</b>	<b>495</b>		 			<b>Viscosity</b>			<b>cSt at 40 Deg. C</b>	<b>68.0</b>		<b>cSt at 100 Deg. C</b>	<b>10.1</b>		<b>Viscosity Index</b>	<b>133</b>		<b>ISO Viscosity Grade</b>	<b>68</b>	
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<b>Notes:</b> <b>Conforming Commercial Products:</b> (1) Royal Purple Synfilm GT68. (2) This is a special purpose lubricant no other product will be considered.																													
<b>Used on (PVSC Equipment):</b>																													
<b>Prepared by:</b> JB <b>Date:</b> FEB 2007	<b>Revisions:</b> <b>APRIL 2015 - Revised</b>																												

**11910.5 Lubricant Specification**

**PASSAIC VALLEY SEWERAGE COMMISSION  
PLANT ENGINEERING DEPARTMENT  
600 Wilson Avenue, Newark, NJ 07105**

**Spec. No.: SY-29  
Issue Date: FEB 2007  
Sheet No.: 1 of 1**

**PVSC ENGINEERING  
STANDARD**

**TITLE Synthetic Lubricant**

**Purpose/Objective: Procurement Specification; Lubricant**

**Description:**

**PVSC Stock Number(s) 55 Gal. Drum – 5 Gallon**

<b>ISO Viscosity Grade</b>	<b>680</b>
<b>Viscosity @ 40 Deg. C cSt</b>	<b>680</b>
<b>Viscosity @ 100 Deg. C cSt</b>	<b>112.14</b>
<b>Viscosity Index</b>	<b>265</b>
<b>Pour Point Deg. C</b>	<b>-33</b>
<b>Flash Point Deg. C</b>	<b>265</b>

**Manufacturer of Lubricants to this specification must be “REGISTERED” to the ISO 9000 (or higher) standards as established by the International Organization for Standardization.**

**Notes:**

- (1) Conforming Commercial Product: Mobil Glygoyle 680**
- (2) NO SUBSTITUTE WILL BE ACCEPTED AS THIS IS A SPECIAL PURPOSE PRODUCT.**

**Used on (PVSC Equipment):**

**Prepared by: JB  
Date: FEB 2007**

**Revisions:**

<b>11910.5 Lubricant Specification</b>	
<b>PASSAIC VALLEY SEWERAGE COMMISSION</b> <b>PLANT ENGINEERING DEPARTMENT</b> <b>600 Wilson Avenue, Newark, NJ 07105</b>	<b>Spec. No.: SY-30-220</b> <b>Issue Date: MAR. 2024</b> <b>Sheet No.: 1 of 1</b>
<b>PVSC ENGINEERING</b> <b>STANDARD</b>	<b>TITLE ISO – 220</b> <b>Synthetic Oil</b>
<b>Purpose/Objective: Procurement Specification; Lubricant</b>	
<b>Description:</b>	
	<b>PVSC Stock Number(s)</b> <b>2200000027 5 Gal. Pail</b>
<b>AGMA</b>	<b>9005-E02</b>
<b>Specific Gravity, API</b>	<b>0.87</b>
<b>Evaporation Loss, %</b>	<b>&lt;1</b>
<b>Pour Point, Deg. C, Max.</b>	<b>-35</b>
<b>Flash Point, Deg. C, Min.</b>	<b>262</b>
<b>Viscosity</b>	
<b>cSt at 40 Deg. C</b>	<b>230.4</b>
<b>cSt at 100 Deg. C</b>	<b>24.14</b>
<b>Viscosity Index</b>	<b>131</b>
<b>Copper Corrosion, ASTM D-130</b>	<b>1B</b>
<b>ISO Viscosity Grade</b>	<b>220</b>
<p>Manufacturers of lubricants to this specification must be “REGISTERED” to the ISO 9000 (or higher) standard as established by the International Organization for Standardization.</p> <p>The Chemlube® 600 Series is a full synthetic, PAO-based product line designed for a wide variety of rotating equipment. This series is recommended for gear drives, hydraulic systems, compressors, and pumps where moderate to heavy loads and high temperatures are expected.</p>	
<b>Notes:</b> <b>Conforming Commercial Products:</b> (1) Chemlube 630 (2) NO SUBSTITUTES WILL BE ACCEPTED	
<b>Used on (PVSC Equipment): EZ Strip pumps at Finals Gallery</b>	
<b>Prepared by: SMA</b> <b>Date: MAR 2024</b>	<b>Revisions:</b>
<small>2010 PVSC Spec/lzf</small>	

<b>11910.5 Lubricant Specification</b>	
PASSAIC VALLEY SEWERAGE COMMISSION PLANT ENGINEERING DEPARTMENT 600 Wilson Avenue, Newark, NJ 07105	Spec. No.: SY-31 Issue Date: FEB 2025 Sheet No.: 1 of 1
<b>PVSC ENGINEERING STANDARD</b>	TITLE Phillips 66 Synthetic Engine Oil 5W-20
Purpose/Objective: Procurement Specification; Lubricant	
Description:  PVSC Stock Number(s): 55 Gal. - 1200000046	
SAE Grade	5W-20
Viscosity Index	> 152
Pour Point	< -30 Deg. F
Flash Point	> 424 Deg. F
Viscosity	
cP at 150 Deg. C	2.6
Cold Crank @ -30 °C	5,600
Specific Gravity @ 60 °F	0.862
Manufacturers of lubricants to this specification must be "REGISTERED" to the ISO 9000 (or higher) standard as established by the International Organization for Standardization.	
Notes: Conforming Commercial Products:  Phillips 66 5W-20 (Product Code 632385004931). Formally Called 76 Lubricants. <b>NO SUBSTITUTIONS ACCEPTED</b>	
Used on (PVSC Equipment): Vehicles	
Prepared by: SA Date: February 2025	Revisions:
2010 PVSC Spec/lzf	

**SYNTHETIC GREASE SPECIFICATIONS**

<b>PVSC SPEC NO.</b>	<b>DESCRIPTION</b>	<b>INDUSTRIAL / COMMERCIAL DESIGNATION</b>
<b>SYGR-1</b>	<b>Silicone Oil / Lithium Soap Grease</b>	<b>DC 33</b>
<b>SYGR-2</b>	<b>Silicone Oil / Lithium Soap Grease</b>	<b>DC 44</b>
<b>SYGR-5</b>	<b>Flourosilicone Grease</b>	<b>DC-1292</b>
<b>SYGR-6</b>	<b>Diester Synthetic Grease</b>	<b>Aeroshell #7</b>
<b>SYGR-7</b>	<b>Mineral Polyester Synthetic Grease</b>	<b>Aeroshell #16</b>
<b>SYGR-8</b>	<b>Synthetic Hydrocarbon Grease</b>	<b>Aeroshell #22</b>
<b>SYGR-9</b>	<b>Hydrocarbon Free Grease</b>	<b>HC #25-10M</b>
<b>SYGR-10</b>	<b>Oxygen Compatible Grease</b>	<b>Krytox GPL-226</b>
<b>SYGR-11</b>	<b>Heavy Duty Synthetic Grease</b>	<b>NGLI 1 1/2</b>
<b>SYGR-12</b>	<b>High Temperature Synthetic Grease</b>	<b>Kluber Petamo GHY 443</b>
<b>SYGR-13</b>	<b>High Temperature Synthetic Grease</b>	<b>Kluber Barrierta L55/2</b>
<b>SYGR-14</b>	<b>Synthetic Grease</b>	<b>NGLI 2</b>
<b>SYGR-15</b>	<b>Synthetic Grease</b>	<b>NGLI 2</b>

<b>11910.5 Lubricant Specification</b>	
<b>PASSAIC VALLEY SEWERAGE COMMISSION PLANT ENGINEERING DEPARTMENT 600 Wilson Avenue, Newark, NJ 07105</b>	<b>Spec. No.: SYGR-1 Issue Date: MARCH 2011 Sheet No.: 1 of 1</b>
<b>PVSC ENGINEERING STANDARD</b>	<b>TITLE Silicone Oil Lithium Soap Grease</b>
<b>Purpose/Objective: Procurement Specification; Lubricant</b>	
<b>Description:</b>	
	<b>PVSC Stock Number(s) 0193071 – 14 Oz. Container 8lb. Can</b>
<b>Color</b>	<b>Pink / Gray</b>
<b>Thickener</b>	<b>Lithium Soap</b>
<b>Penetration, worked 60 strokes</b>	<b>280</b>
<b>Bleed, After 24 Hrs. at 300°F (149°C), %</b>	<b>1.0</b>
<b>Evaporation, After 24 Hrs. at 300°F (149°C), %</b>	<b>2.8</b>
<b>Dropping Point, Degrees</b>	<b>439°F (226°C)</b>
<b>Dirt Count</b>	<b>Pass</b>
<b>Temperature Range, Degrees</b>	<b>-100°F to 400°F (-73°C to 204°C)</b>
<b>Specific Gravity at 77°F (25°C)</b>	<b>0.97</b>
<b>Bomb Oxid., Pressure Drop after 500 Hrs. at 210°F (99°C), psi</b>	<b>2.0</b>
<b>Water Washout Resistance Loss, %</b>	<b>0.5</b>
<b>Thermal Conductivity</b>	
<b>Cal./sec./cm/Deg. C/cm</b>	<b>0.00028</b>
<b>BTU/hr./ft./Deg. F/in.</b>	<b>8.13</b>
<b>Specific Heat</b>	
<b>Cal./gm/Deg. C</b>	<b>0.379</b>
<b>BTU/lb./Deg. F</b>	<b>0.379</b>
<b>High Temperature Bearing Performance, Hrs. at 10,000 rpms, 6 Lb. Radial Load, 204 Bearing at 400°F (204°C), Weibull B</b>	<b>320</b>
<b>Max. DN Value (Bore size in mm x rpm)</b>	<b>200,000</b>
<b>Manufacturers of lubricants to this specification must be "REGISTERED" to the ISO 9000 (or higher) standard as established by the International Organization for Standardization.</b>	
<b>Notes:</b>	
<b>Conforming Commercial Products:</b>	
<b>Dow Corning 33 Extreme Low Temperature Bearing Grease, Medium</b>	
<b>Used on (PVSC Equipment):</b>	
<b>Prepared by: KB/FG Date: MARCH 1990</b>	<b>Revisions: JAN 1999 – Added ISO 9000 requirement Jan 2003 – Revised Performance Requirements and Conforming Products</b>
<b>2010 PVSC Spec/lzf</b>	

<b>11910.5 Lubricant Specification</b>	
<b>PASSAIC VALLEY SEWERAGE COMMISSION PLANT ENGINEERING DEPARTMENT 600 Wilson Avenue, Newark, NJ 07105</b>	<b>Spec. No.: SYGR-2 Issue Date: MARCH 1990 Sheet No.: 1 of 1</b>
<b>PVSC ENGINEERING STANDARD</b>	<b>TITLE Silicone Oil Lithium Soap Grease</b>
<b>Purpose/Objective: Procurement Specification; Lubricant</b>	
<b>Description:</b>	
	<b>PVSC Stock Number(s) 0193072 - 14 Oz. Container</b>
<b>Color</b>	<b>Brown/Amber</b>
<b>Thickener</b>	<b>Lithium Soap</b>
<b>Penetration, worked 60 strokes</b>	<b>280</b>
<b>Bleed, After 24 Hrs. at 300°F (149°C), %</b>	<b>2.0</b>
<b>Evaporation, After 24 Hrs. at 300°F (149°C), %</b>	<b>2.0</b>
<b>Dropping Point, Degrees</b>	<b>432°F (220°C)</b>
<b>Dirt Count</b>	<b>Pass</b>
<b>Temperature Range, Degrees</b>	<b>-40°F to 400°F (40°C to 204°C)</b>
<b>Specific Gravity at 77°F (25°C)</b>	<b>1.05</b>
<b>Bomb Oxid., Pressure Drop after 500 Hrs. at 210°F (99°C), psi</b>	<b>2.0</b>
<b>Water Washout Resistance Loss, %</b>	<b>0.5</b>
<b>Thermal Conductivity</b>	
<b>Cal./sec./cm/Deg. C/cm</b>	<b>0.00028</b>
<b>BTU/hr./ft./Deg. F/in.</b>	<b>8.13</b>
<b>Specific Heat</b>	
<b>Cal./gm/Deg. C</b>	<b>0.368</b>
<b>BTU/lb./Deg. F</b>	<b>0.368</b>
<b>High Temperature Bearing Performance, Hrs. at 10,000 rpm,</b>	<b>800</b>
<b>6 Lb. Radial Load, 204 Bearing at 400°F (204°C),</b>	
<b>Weibull B</b>	
<b>Max. DN Value (Bore size in mm x rpm)</b>	<b>300,000</b>
<b>Manufacturers of lubricants to this specification must be "REGISTERED" to the ISO 9000 (or higher) standard as established by the International Organization for Standardization.</b>	
<b>Notes:</b>	
<b>Conforming Commercial Products:</b>	
<b>Dow Corning 44 High Temperature Bearing Grease, Medium</b>	
<b>Used on (PVSC Equipment):</b>	
<b>Prepared by: KB/FG Date: MARCH 1990</b>	<b>Revisions: JAN 1999 – Added ISO 9000 requirement Jan 2003 – Revised Performance Requirements and Conforming Products</b>
<b>2010 PVSC Spec/lzf</b>	

<b>11910.5 Lubricant Specification</b>	
<b>PASSAIC VALLEY SEWERAGE COMMISSION PLANT ENGINEERING DEPARTMENT 600 Wilson Avenue, Newark, NJ 07105</b>	<b>Spec. No.: SYGR-5 Issue Date: MARCH 1990 Sheet No.: 1 of 1</b>
<b>PVSC ENGINEERING STANDARD</b>	<b>TITLE Flourosilicone Grease</b>
<b>Purpose/Objective: Procurement Specification; Lubricant</b>	
<b>Description:</b>	
	<b>PVSC Stock Number(s) 0193075 - 45 Lb. Container</b>
<b>Color</b>	<b>Off White</b>
<b>Penetration, worked 60 strokes</b>	<b>300</b>
<b>Temperature Range, Degrees</b>	<b>-40°F to 400°F (40°C to 204°C)</b>
<b>Specific Gravity at 77°F (25°C)</b>	<b>1.28</b>
<b>Bleed, Fed. Std. 791-Method 321, % after 30 Hr./400°F (204°C)</b>	<b>1.2</b>
<b>Dropping Point, Degrees</b>	<b>&gt;570°F (300°C)</b>
<b>4-Ball Wear Scar (1200 rpm, 40, 450°F, Steel vs. Steel, 1 Hr. mm</b>	<b>1.33</b>
<b>Mean Hertz Load, Fed. Std. 791a-Method 6503, kg</b>	<b>77</b>
<b>Weld Load, Fed. St. 791a-Method 6503, kg</b>	<b>340</b>
<b>Dirt Content, Fed. Std. 791-Method 3005.1</b>	<b>Pass</b>
<b>Bomb Oxidation, Pressure Drop After 500/hr./210°F (99°C)</b>	<b>&gt; 1</b>
<b>Fuel Solubility, (Ref. Fuel II), %</b>	<b>16</b>
<b>Water Resistance, Weight Loss, %</b>	<b>0.4</b>
<b>Low Temperature Torque at -30°F (-34°C)</b>	
<b>Starting, g-cm</b>	<b>2389</b>
<b>Running, g-cm</b>	<b>1237</b>
<b>Copper Corrosion</b>	<b>Pass</b>
<b>Bearing Performance, Avg. Life of 204 Bearing at 10,000 rpm, hrs.</b>	<b>200</b>
<b>450°F, 320 Lb. Load</b>	<b>700</b>
<b>400°F, 5 Lb. Load</b>	
<b>Coefficient of Friction</b>	<b>0.14</b>
<b>Extreme Pressure Failex – Failure Load, pds.</b>	<b>2200</b>
<b>Load Carrying Cap. Timken OK Load pds.</b>	<b>65</b>
<b>PSI</b>	<b>30,025</b>
<b>Manufacturers of lubricants to this specification must be “REGISTERED” to the ISO 9000 (or higher) standard as established by the International Organization for Standardization.</b>	
<b>Notes:</b>	
(1) Conforming Commercial Products: Dow Corning 1292 Long Life Bearing Grease	
(2) NO SUBSTITUTE WILL BE ACCEPTED	
<b>Used on (PVSC Equipment):</b>	
<b>Prepared by: KB/FG Date: MARCH 1990</b>	<b>Revisions: JAN 1999: Note (2) added Alternate product approval note deleted Added ISO 9000 requirement Jan 2003 – Revised Performance Requirements and Conforming Products</b>
2010 PVSC Spec/lzf	

<b>11910.5 Lubricant Specification</b>	
<b>PASSAIC VALLEY SEWERAGE COMMISSION PLANT ENGINEERING DEPARTMENT 600 Wilson Avenue, Newark, NJ 07105</b>	<b>Spec. No.: SYGR-6 Issue Date: MARCH 1990 Sheet No.: 1 of 1</b>
<b>PVSC ENGINEERING STANDARD</b>	<b>TITLE Diester Synthetic Grease</b>
<b>Purpose/Objective: Procurement Specification; Lubricant</b>	
<b>Description:</b>	
	<b>PVSC Stock Number(s) 0193076 - 35 Lb. Container</b>
<b>Thickener</b>	<b>Microgel</b>
<b>Oil Type</b>	<b>Diester Synthetic</b>
<b>Oil Viscosity</b>	
cSt at 210°F	3.1
<b>Useful Temperature Range, Deg. F</b>	<b>-100°F to +300°F</b>
<b>Dropping Point, Deg. F</b>	<b>500°F+</b>
<b>Penetration at 77°F</b>	
Unworked	283
Worked	296
<b>Evaporation in 22 Hrs.</b>	
<b>Test Temperature, Deg. F</b>	<b>210°F</b>
<b>Loss, %</b>	<b>0.5</b>
<b>Corrosion</b>	
Copper Strip, 24 Hrs. at 212°F	<b>1B Max</b>
Bearing Protection, 14 Days	<b>Pass</b>
<b>Bomb Oxid., Pressure Drop at 210°F, psi</b>	
100 Hrs.	9
500 Hrs.	14
<b>Water Resistance Test Loss, %w</b>	<b>0.8</b>
<b>Anti-Friction Bearing Performance:</b>	
Temperature, Deg. F	250°F
Time, Hrs.	2460
Mean Hertz Load, Kg	60
<b>Oil Separation, 30 Hrs. at 212°F, %w</b>	<b>30.0</b>
<b>Color</b>	<b>Buff</b>
<b>Qualified Under Specifications</b>	<b>MIL-G 23827A</b>
<b>Manufacturers of lubricants to this specification must be "REGISTERED" to the ISO 9000 (or higher) standard as established by the International Organization for Standardization.</b>	
<b>Notes:</b>	
<b>Conforming Commercial Product(s):</b>	
<b>Aeroshell #7 (Product Code 70149)</b>	
<b>Used on (PVSC Equipment):</b>	
<b>Prepared by: KB/FG</b>	<b>Revisions:</b>
<b>Date: MARCH 1990</b>	<b>EWD – Jan. 1997 – Added 35 Lb. Container</b>
	<b>JAN 1999 – Added ISO 9000 requirement</b>
	<b>Jan 2003 – Revised Performance Requirements</b>
<b>2010 PVSC Spec/lzf</b>	

<b>11910.5 Lubricant Specification</b>	
<b>PASSAIC VALLEY SEWERAGE COMMISSION PLANT ENGINEERING DEPARTMENT 600 Wilson Avenue, Newark, NJ 07105</b>	<b>Spec. No.: SYGR-7 Issue Date: MARCH 1990 Sheet No.: 1 of 1</b>
<b>PVSC ENGINEERING STANDARD</b>	<b>TITLE Mineral Polyester Synthetic Grease</b>
<b>Purpose/Objective: Procurement Specification; Lubricant</b>	
<b>Description:</b>	<b>PVSC Stock Number(s) 0193077 - 35 Lb. Pail</b>
<b>Thickener</b>	<b>Microgel</b>
<b>Oil Type</b>	<b>Mineral Polyester Synthetic</b>
<b>Oil Viscosity</b>	
<b>cSt at 210°F</b>	<b>6.0</b>
<b>Useful Temperature Range, Deg. F</b>	<b>-65°F to +400°F</b>
<b>Dropping Point, Deg. F</b>	<b>500°F+</b>
<b>Penetration at 77°F</b>	
<b>Unworked</b>	<b>290</b>
<b>Worked</b>	<b>308</b>
<b>Evaporation in 22 Hrs.</b>	
<b>Test Temperature, Deg. F</b>	<b>350°F</b>
<b>Loss, %</b>	<b>3.8</b>
<b>Corrosion</b>	
<b>Copper Strip, 24 Hrs. at 212°F</b>	<b>1B Max</b>
<b>Bearing Protection, 14 Days</b>	<b>Pass</b>
<b>Bomb Oxid., Pressure Drop at 210°F, psi</b>	
<b>100 Hrs.</b>	<b>5</b>
<b>500 Hrs.</b>	<b>10</b>
<b>Water Resistance Test Loss, %w</b>	<b>1.8</b>
<b>Anti-Friction Bearing Performance:</b>	
<b>Temperature, Deg. F</b>	<b>350°F</b>
<b>Time, Hrs.</b>	<b>400+</b>
<b>Mean Hertz Load, Kg</b>	<b>57</b>
<b>Oil Separation, 30 Hrs.</b>	
<b>at 212°F, %w</b>	<b>3.5</b>
<b>at 350°F, %w</b>	<b>4.3</b>
<b>Color</b>	<b>Light Brown</b>
<b>Qualified Under Specifications</b>	<b>MIL-G 25760A</b>
<b>Manufacturers of lubricants to this specification must be "REGISTERED" to the ISO 9000 (or higher) standard as established by the International Organization for Standardization.</b>	
<b>Notes: Conforming Commercial Product(s):</b>	
<b>Aeroshell #16 – NO SUBSTITUTES (Product Code 70016)</b>	
<b>Used on (PVSC Equipment):</b>	
<b>RASP 500 HP Motor Backstops</b>	
<b>Prepared by: KB/FG</b>	<b>Revisions:</b>
<b>Date: MARCH 1990</b>	<b>EWD – Jan. 1997:</b>
	<b>Added 35 Lb. Pail – NO SUBSTITUTES –</b>
	<b>RASP 500 HP Motor Backstops</b>
	<b>JAN 1999 – Added ISO 9000 requirement</b>
	<b>Jan 2003 – Revised Performance Requirements</b>
<small>2010 PVSC Spec/lzf</small>	

<b>11910.5 Lubricant Specification</b>	
<b>PASSAIC VALLEY SEWERAGE COMMISSION PLANT ENGINEERING DEPARTMENT 600 Wilson Avenue, Newark, NJ 07105</b>	<b>Spec. No.: SYGR-8 Issue Date: MARCH 1990 Sheet No.: 1 of 1</b>
<b>PVSC ENGINEERING STANDARD</b>	<b>TITLE Synthetic Hydrocarbon Grease</b>
<b>Purpose/Objective: Procurement Specification; Lubricant</b>	
<b>Description:</b>	<b>PVSC Stock Number(s) 0193078 - 35 Lb. Pail</b>
<b>Thickener</b>	<b>Microgel</b>
<b>Oil Type</b>	<b>Synthetic Hydrocarbon</b>
<b>Oil Viscosity</b>	
<b>cSt at 210°F</b>	<b>5.8</b>
<b>Useful Temperature Range, Deg. F</b>	<b>-85°F to +400°F</b>
<b>Dropping Point, Deg. F</b>	<b>500°F+</b>
<b>Penetration at 77°F</b>	
<b>Unworked</b>	<b>271</b>
<b>Worked</b>	<b>295</b>
<b>Evaporation in 22 Hrs.</b>	
<b>Test Temperature, Deg. F</b>	<b>350°F</b>
<b>Loss, %</b>	<b>43</b>
<b>Corrosion</b>	
<b>Copper Strip, 24 Hrs. at 212°F</b>	<b>1B Max</b>
<b>Bearing Protection, 14 Days</b>	<b>Pass</b>
<b>Bomb Oxid., Pressure Drop at 210°F, psi</b>	
<b>100 Hrs.</b>	<b>4</b>
<b>500 Hrs.</b>	<b>10</b>
<b>Water Resistance Test Loss, %w</b>	<b>1.3</b>
<b>Anti-Friction Bearing Performance:</b>	
<b>Temperature, Deg. F</b>	<b>350°F</b>
<b>Time, Hrs.</b>	<b>400+</b>
<b>Mean Hertz Load, Kg</b>	<b>45</b>
<b>Oil Separation, 30 Hrs.</b>	
<b>at 212°F, %w</b>	
<b>at 350°F, %w</b>	<b>8</b>
<b>Color</b>	<b>Amber</b>
<b>Qualified Under Specifications</b>	<b>MIL-G 81322C</b>
<b>Manufacturers of lubricants to this specification must be "REGISTERED" to the ISO 9000 (or higher) standard as established by the International Organization for Standardization.</b>	
<b>Notes:</b>	
<b>Conforming Commercial Product(s):</b>	
<b>Aeroshell #22 (Product Code 70022)</b>	
<b>Used on (PVSC Equipment):</b>	
<b>Prepared by: KB/FG</b>	<b>Revisions:</b>
<b>Date: MARCH 1990</b>	<b>EWD – Jan. 1997: Added 35 Lb. Pail</b>
	<b>JAN 1999 – Added ISO 9000 requirement</b>
	<b>Jan 2003 – Revised Performance Requirements</b>
<b>2010 PVSC Spec/lzf</b>	

<b>11910.5 Lubricant Specification</b>				
<b>PASSAIC VALLEY SEWERAGE COMMISSION</b> <b>PLANT ENGINEERING DEPARTMENT</b> <b>600 Wilson Avenue, Newark, NJ 07105</b>			<b>Spec. No.:</b> SYGR-9 <b>Issue Date:</b> MARCH 1990 <b>Sheet No.:</b> 1 of 1	
<b>PVSC ENGINEERING</b> <b>STANDARD</b>			<b>TITLE</b> Hydrocarbon-Free Grease	
<b>Purpose/Objective:</b> Procurement Specification; Lubricant				
<b>Description:</b>				
<b>PVSC Stock Number(s) 0193087 - One Lb. Container</b>				
<b>PCTFE/PCTFE Polymer Thickened Grease</b>				
<b>Penetration (+/- 10%)</b> <b>(0.1 mm Units)</b> <b>Unworked    Worked</b>		<b>Service</b> <b>Temperature Range</b> <b>°F</b> <b>(°C)</b>	<b>Minimum Drop</b> <b>Melting Point</b> <b>°F</b> <b>(°C)</b>	<b>Maximum Vapor Pressure at</b> <b>140°F (60°C)</b> <b>(mm Hg)</b>
310	340	30 to 275 (-1 to 134)	300 (149)	1 X 10
<b>ISO 9000 Registration is waived for the Manufacturer of this product.</b>				
<b>Notes:</b> <b>(1) Conforming Commercial Products: Halocarbon #25-10M</b> <b>(2) NO SUBSTITUTE WILL BE ACCEPTED</b>				
<b>Used on (PVSC Equipment):</b>				
<b>Prepared by:</b> KB/FG <b>Date:</b> MARCH 1990			<b>Revisions:</b> <b>EWD – Jan. 1997: Added One Lb. Container</b> <b>JAN 1999:</b> <b>Note (2) added</b> <b>Alternate product approval note deleted</b> <b>ISO 9000 waiver added</b> <b>Jan 2003 – Revise Performance Requirements</b>	
2010 PVSC Spec/lzf				

<b>11910.5 Lubricant Specification</b>	
<b>PASSAIC VALLEY SEWERAGE COMMISSION PLANT ENGINEERING DEPARTMENT 600 Wilson Avenue, Newark, NJ 07105</b>	<b>Spec. No.: SYGR-10 Issue Date: Jan. 2003 Sheet No.: 1 of 1</b>
<b>PVSC ENGINEERING STANDARD</b>	<b>TITLE Oxygen Compatible Grease</b>
<b>Purpose/Objective: Procurement Specification; Lubricant</b>	
<b>Description:</b>	
	<b>PVSC Stock Number(s) 1.75 LB Cartridge 16 Lb. Container 40 Lb. Container</b>
<b>Temperature Range, Degrees</b>	<b>-33°F to 500°F (-36°C to 260°C)</b>
<b>Specific Gravity at 77°F (25°C)</b>	<b>1.95</b>
<b>Oil Separation % in 30Hr./210°F</b>	<b>3%</b>
<b>4-Ball Wear Scar (ASTM D 2266)</b>	<b>0.4mm</b>
<b>Anti-Rust (ATSM D 1743)</b>	<b>Pass</b>
<b>Coefficient of Friction (ASTM D 2266)</b>	<b>0.11</b>
<b>Base Oil Viscosity</b>	
<b>cST 40°C</b>	<b>240</b>
<b>cST 100°C</b>	<b>25</b>
<b>Manufacturers of lubricants to this specification must be "REGISTERED" to the ISO 9000 (or higher) standard as established by the International Organization for Standardization.</b>	
<b>Notes:</b>	
<b>(1) Conforming Commercial Products: Dupont Krytox GPL-226 Fluorinated Grease</b>	
<b>(2) NO SUBSTITUTE WILL BE ACCEPTED</b>	
<b>Used on (PVSC Equipment):</b>	
<b>Prepared by: JB Date: Jan. 2003</b>	<b>Revisions:</b>
<b>2010 PVSC Spec/al</b>	

<b>11910.5 Lubricant Specification</b>																													
<b>PASSAIC VALLEY SEWERAGE COMMISSION</b> <b>PLANT ENGINEERING DEPARTMENT</b> <b>600 Wilson Avenue, Newark, NJ 07105</b>	<b>Spec. No.: SYGR-11</b> <b>Issue Date: Jan. 2003</b> <b>Sheet No.: 1 of 1</b>																												
<b>PVSC ENGINEERING STANDARD</b>	<b>TITLE Heavy Duty Synthetic Grease</b>																												
<b>Purpose/Objective: Procurement Specification; Lubricant</b>																													
<b>Description:</b> <p style="text-align: right;"><b>PVSC Stock Number(s) 14 oz. Cartridge</b> <b>35 Lb. Container</b></p> <table> <tr> <td><b>NLGI Grade</b></td> <td><b>1 ½ EP</b></td> </tr> <tr> <td><b>Soap Type</b></td> <td><b>Lithium Complex</b></td> </tr> <tr> <td><b>ISO VG</b></td> <td><b>460</b></td> </tr> <tr> <td><b>Load Wear Index</b></td> <td><b>49</b></td> </tr> <tr> <td><b>4-Ball Wear Scar (ASTM D 2266)</b></td> <td><b>0.8mm</b></td> </tr> <tr> <td><b>Anti-Rust (ATSM D 1743)</b></td> <td><b>Pass</b></td> </tr> <tr> <td colspan="2"><b>Base Oil Viscosity</b></td> </tr> <tr> <td><b>cST 40°C</b></td> <td><b>460</b></td> </tr> <tr> <td><b>cST 100°C</b></td> <td><b>46.5</b></td> </tr> <tr> <td><b>Penetration worked 60 Strokes</b></td> <td><b>305</b></td> </tr> <tr> <td><b>Dropping Point</b></td> <td><b>475°F</b></td> </tr> <tr> <td><b>Water Washout ASTM D 1264 wt%</b></td> <td><b>3</b></td> </tr> <tr> <td><b>Bomb Oxidation Pressure</b></td> <td><b>4</b></td> </tr> <tr> <td><b>Drop after 500 hrs at 210°F psi</b></td> <td></td> </tr> </table> <p><b>Manufacturers of lubricants to this specification must be "REGISTERED" to the ISO 9000 (or higher) standard as established by the International Organization for Standardization.</b></p>		<b>NLGI Grade</b>	<b>1 ½ EP</b>	<b>Soap Type</b>	<b>Lithium Complex</b>	<b>ISO VG</b>	<b>460</b>	<b>Load Wear Index</b>	<b>49</b>	<b>4-Ball Wear Scar (ASTM D 2266)</b>	<b>0.8mm</b>	<b>Anti-Rust (ATSM D 1743)</b>	<b>Pass</b>	<b>Base Oil Viscosity</b>		<b>cST 40°C</b>	<b>460</b>	<b>cST 100°C</b>	<b>46.5</b>	<b>Penetration worked 60 Strokes</b>	<b>305</b>	<b>Dropping Point</b>	<b>475°F</b>	<b>Water Washout ASTM D 1264 wt%</b>	<b>3</b>	<b>Bomb Oxidation Pressure</b>	<b>4</b>	<b>Drop after 500 hrs at 210°F psi</b>	
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<b>Bomb Oxidation Pressure</b>	<b>4</b>																												
<b>Drop after 500 hrs at 210°F psi</b>																													
<b>Notes:</b> <b>(1) Conforming Commercial Products: Mobil Mobilith SHC 460 (Product#64355-1)</b> <b>(2) NO SUBSTITUTE WILL BE ACCEPTED</b>																													
<b>Used on (PVSC Equipment):</b>																													
<b>Prepared by: JB</b> <b>Date: Jan. 2003</b>	<b>Revisions:</b>																												
2010 PVSC Special																													

<b>11910.5 Lubricant Specification</b>	
<b>PASSAIC VALLEY SEWERAGE COMMISSION PLANT ENGINEERING DEPARTMENT 600 Wilson Avenue, Newark, NJ 07105</b>	<b>Spec. No.: SYGR-12 Issue Date: Jan. 2003 Sheet No.: 1 of 1</b>
<b>PVSC ENGINEERING STANDARD</b>	<b>TITLE High Temperature Synthetic Grease</b>
<b>Purpose/Objective: Procurement Specification; Lubricant</b>	
<b>Description:</b>	
<b>PVSC Stock Number(s) 1.kg Container</b>	
<b>Temperature Range, Degrees</b>	<b>-25°C - 180°C</b>
<b>NGLI Grade</b>	<b>3</b>
<b>Specific Gravity at (20°C)</b>	<b>0.97</b>
<b>Thickener</b>	<b>Polyurea</b>
<b>Base Oil</b>	<b>Ester</b>
<b>Base Oil Viscosity</b>	
<b>cST 40°C</b>	<b>440</b>
<b>cST 100°C</b>	<b>38</b>
<b>Dropping Point</b>	<b>&gt; 250°C</b>
 <b>Manufacturers of lubricants to this specification must be "REGISTERED" to the ISO 9000 (or higher) standard as established by the International Organization for Standardization.</b>  	
<b>Notes:</b>	
(1) Conforming Commercial Products: Kluber Petamo GHY 443	
(2) NO SUBSTITUTE WILL BE ACCEPTED	
<b>Used on (PVSC Equipment): Westfalia Centrifuge</b>	
<b>Prepared by: JB Date: Jan. 2003</b>	<b>Revisions:</b>
2010 PVSC Spec/al	

<b>11910.5 Lubricant Specification</b>	
<b>PASSAIC VALLEY SEWERAGE COMMISSION PLANT ENGINEERING DEPARTMENT 600 Wilson Avenue, Newark, NJ 07105</b>	<b>Spec. No.: SYGR-13 Issue Date: Jan. 2003 Sheet No.: 1 of 1</b>
<b>PVSC ENGINEERING STANDARD</b>	<b>TITLE High Temperature Synthetic Grease</b>
<b>Purpose/Objective: Procurement Specification; Lubricant</b>	
<b>Description:</b>	
<b>PVSC Stock Number(s) 1 kg Container</b>	
<b>Temperature Range, Degrees</b>	<b>-40°C to 260°C</b>
<b>NLGI Grade</b>	<b>2</b>
<b>Specific Gravity at (20°C)</b>	<b>1.96</b>
<b>Thickener</b>	<b>PTFE</b>
<b>Base Oil</b>	<b>PFAE</b>
<b>Base Oil Viscosity</b>	
<b>cST 40°C</b>	<b>400</b>
<b>cST 100°C</b>	<b>35</b>
 <b>Manufacturers of lubricants to this specification must be "REGISTERED" to the ISO 9000 (or higher) standard as established by the International Organization for Standardization.</b>	
<b>Notes:</b>	
(1) Conforming Commercial Products: Kluber Barrierta L 55/2	
(2) NO SUBSTITUTE WILL BE ACCEPTED	
<b>Used on (PVSC Equipment):</b>	
<b>Westfalia Centrifuge</b>	
<b>Prepared by: JB Date: Jan. 2003</b>	<b>Revisions:</b>
<small>2010 PVSC Spec/al</small>	

<b>11910.5 Lubricant Specification</b>																								
<b>PASSAIC VALLEY SEWERAGE COMMISSION</b> <b>PLANT ENGINEERING DEPARTMENT</b> <b>600 Wilson Avenue, Newark, NJ 07105</b>		<b>Spec. No.: SYGR-14</b> <b>Issue Date: FEB 2007</b> <b>Sheet No.: 1 of 1</b>																						
<b>PVSC ENGINEERING STANDARD</b>		<b>TITLE Synthetic Grease</b>																						
<b>Purpose/Objective: Procurement Specification; Lubricant</b>																								
<b>Description:</b> <div style="text-align: right;"> <b>PVSC Stock Number(s) 14 Oz. Cartridge 5 Gallon Pail</b> </div> <table style="width: 100%; border: none;"> <tr> <td style="width: 60%;"><b>NLGI Grade</b></td> <td style="text-align: right;"><b>2</b></td> </tr> <tr> <td><b>Base Solid</b></td> <td style="text-align: right;"><b>PTFE</b></td> </tr> <tr> <td><b>4-Ball Wear Scar (ASTM D 2266)</b></td> <td style="text-align: right;"><b>0.50 mm</b></td> </tr> <tr> <td><b>Anti-Rust (ASTM D1743)</b></td> <td style="text-align: right;"><b>Pass</b></td> </tr> <tr> <td colspan="2"> </td> </tr> <tr> <td><b>Base Oil Viscosity</b></td> <td></td> </tr> <tr> <td>    cST 40°C</td> <td style="text-align: right;"><b>290</b></td> </tr> <tr> <td>    cST 100°C</td> <td style="text-align: right;"><b>42</b></td> </tr> <tr> <td><b>Penetration worked 60 Strokes</b></td> <td style="text-align: right;"><b>280</b></td> </tr> <tr> <td><b>Dropping Point</b></td> <td style="text-align: right;"><b>None</b></td> </tr> <tr> <td><b>Water Washout ASTM D-1264 wt%</b></td> <td style="text-align: right;"><b>1.9</b></td> </tr> </table> <p>Manufacturers of lubricants to this specification must be "REGISTERED" to the ISO 9000 (or higher) standard as established by the International Organization for Standardization.</p>			<b>NLGI Grade</b>	<b>2</b>	<b>Base Solid</b>	<b>PTFE</b>	<b>4-Ball Wear Scar (ASTM D 2266)</b>	<b>0.50 mm</b>	<b>Anti-Rust (ASTM D1743)</b>	<b>Pass</b>	 		<b>Base Oil Viscosity</b>		cST 40°C	<b>290</b>	cST 100°C	<b>42</b>	<b>Penetration worked 60 Strokes</b>	<b>280</b>	<b>Dropping Point</b>	<b>None</b>	<b>Water Washout ASTM D-1264 wt%</b>	<b>1.9</b>
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<b>Notes:</b> (1) Conforming Commercial Products: Husky LVI-50 (2) NO SUBSTITUTE WILL BE ACCEPTED AS THIS IS A SPECIAL PURPOSE PRODUCT.																								
<b>Used on (PVSC Equipment):</b>																								
<b>Prepared by: JB</b> <b>Date: FEB 2007</b>		<b>Revisions:</b>																						

<b>11910.5 Lubricant Specification</b>																				
<b>PASSAIC VALLEY SEWERAGE COMMISSION</b> <b>PLANT ENGINEERING DEPARTMENT</b> <b>600 Wilson Avenue, Newark, NJ 07105</b>		<b>Spec. No.: SYGR-15</b> <b>Issue Date: MARCH 2011</b> <b>Sheet No.: 1 of 1</b>																		
<b>PVSC ENGINEERING</b> <b>STANDARD</b>		<b>TITLE Synthetic Grease</b>																		
<b>Purpose/Objective: Procurement Specification; Lubricant</b>																				
<b>Description:</b> <p style="text-align: center;"><b>PVSC Stock Number(s) Case – Ten 12.5oz Cartridges</b></p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;"><b>NLGI Grade</b></td> <td style="width: 50%; text-align: right;"><b>2</b></td> </tr> <tr> <td><b>Base Solid</b></td> <td style="text-align: right;"><b>CLAY</b></td> </tr> <tr> <td><b>4-Ball Wear Scar (ASTM D 2266)</b></td> <td style="text-align: right;"><b>0.40mm</b></td> </tr> <tr> <td colspan="2"> </td> </tr> <tr> <td><b>Base Oil Viscosity</b></td> <td></td> </tr> <tr> <td><b>cST 40°C</b></td> <td style="text-align: right;"><b>100</b></td> </tr> <tr> <td colspan="2"> </td> </tr> <tr> <td><b>Penetration worked 60 Strokes</b></td> <td style="text-align: right;"><b>280</b></td> </tr> <tr> <td><b>Dropping Point</b></td> <td style="text-align: right;"><b>260</b></td> </tr> </table> <p><b>Manufacturers of lubricants to this specification must be “REGISTERED” to the ISO 9000 (or higher) standard as established by the International Organization for Standardization.</b></p>			<b>NLGI Grade</b>	<b>2</b>	<b>Base Solid</b>	<b>CLAY</b>	<b>4-Ball Wear Scar (ASTM D 2266)</b>	<b>0.40mm</b>			<b>Base Oil Viscosity</b>		<b>cST 40°C</b>	<b>100</b>			<b>Penetration worked 60 Strokes</b>	<b>280</b>	<b>Dropping Point</b>	<b>260</b>
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<b>Dropping Point</b>	<b>260</b>																			
<b>Notes:</b> (1) Conforming Commercial Products: Mobil Mobiltemp 100 SHC (2) NO SUBSTITUTE WILL BE ACCEPTED AS THIS IS A SPECIAL PURPOSE PRODUCT.																				
<b>Used on (PVSC Equipment):</b>																				
<b>Prepared by: JB</b> <b>Date: MARCH 2011</b>		<b>Revisions:</b>																		
2010 PVSC Special																				