



“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.

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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

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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.

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.

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 VARIOUS FILTERS 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)

My Commission expires:

(Print name of affiant and title if applicable)

(Corporate Seal if a Corporation)

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.

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.

(Attach Additional Sheets If Necessary.)

Signature of Vendor's Authorized Representative

Print Name and Title of Vendor's Authorized Representative

Vendor's Name

Vendor's Address (Street Address)

Vendor's Address (City/State/Zip Code)

Date

Vendor's FEIN

Vendor's Phone Number

Vendor's Fax Number

Vendor's Email Address

ⁱ 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

PVSC SPEC NO.	DESCRIPTION	INDUSTRIAL / COMMERCIAL DESIGNATION
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

11910.5 Lubricant Specification																	
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																
PVSC ENGINEERING STANDARD	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>> 145</td> </tr> <tr> <td>Pour Point</td> <td>< -25 Deg. F</td> </tr> <tr> <td>Flash Point</td> <td>> 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																	

11910.5 Lubricant Specification	
PASSAIC VALLEY SEWERAGE COMMISSION PLANT ENGINEERING DEPARTMENT 600 Wilson Avenue, Newark, NJ 07105	Spec. No.: AU-2 Issue Date: MARCH 1990 Sheet No.: 1 of 1
PVSC ENGINEERING STANDARD	TITLE Premium API/CF Diesel Engine Oil SAE 30W
Purpose/Objective: Procurement Specification; Lubricant	
Description:	
	PVSC Stock Number(s): 55 Gal. - 0193020 5 Gal.
SAE Grade	30W
Viscosity Index	> 95
Pour Point	< -10 Deg. F
Flash Point	> 420 Deg. F
Viscosity	
cSt at 40 Deg. C	99-105
cSt at 100 Deg. C	10.0-11.5
Gravity API	> 26
 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 1230 Shell Rotella T1 30 Chevron Ursa Super Plus (Code#271203)	
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 & Conforming Products March 2015 - Revised
<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-3 Issue Date: MARCH 1990 Sheet No.: 1 of 1	
PVSC ENGINEERING STANDARD		TITLE 80W 90 Gear Lubricant	
Purpose/Objective: Procurement Specification; Lubricant			
Description:			
		PVSC Stock Number(s): 400 Lb. Drum (55 Gal.) – 0193021 35 Lb. Container (5 Gal.) – 0193010	
SAE Grade	80W-90		
Viscosity Index	> 95		
Pour Point	< -15	Deg. F	
Flash Point	> 327	Deg. F	
Viscosity			
cSt at 40 Deg. C	135-145		
cSt at 100 Deg. C	14.2-15		
Rust ASTM D665:			
Gravity API	> 26		
API Classification	GL-5 & MT-1		
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 Spirax HD – 80W-90 (Product Code 59210) Mobil Lube HD PLUS 80W-90 Texaco Havoline 80W-90 (Code#222271)			
Used on (PVSC Equipment):			
Prepared by: KB/FG Date: March 1990		Revisions: March 1990 EWD – Jan 1997: Changed 420 Lb. To 400 Lb. Drum (55 Gal.); Added 35 Lb. Container (5 Gal.) – 0193010 JAN. 1999 – Added ISO 9000 requirement Jan. 2003 – Revised Performance Requirement and Conforming Products	
Approved by: Date:			
2010 PVSC Spec/lzf			

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

Prepared by: KB/FG
 Date: March 1990

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

11910.5 Lubricant Specification																			
PASSAIC VALLEY SEWERAGE COMMISSION PLANT ENGINEERING DEPARTMENT 600 Wilson Avenue, Newark, NJ 07105	Spec. No.: AU-7 Issue Date: MARCH 1990 Sheet No.: 1 of 1																		
PVSC ENGINEERING STANDARD	TITLE High Detergent SAE 10W																		
Purpose/Objective: Procurement Specification; Lubricant																			
Description: <p style="text-align: right;">PVSC Stock Number(s): 55 Gal. – 0193025</p> <table> <tr> <td>SAE Grade</td> <td>10W</td> </tr> <tr> <td>Viscosity Index</td> <td>> 105</td> </tr> <tr> <td>Pour Point</td> <td>< -20 Deg. F</td> </tr> <tr> <td>Flash Point</td> <td>> 405 Deg. F</td> </tr> <tr> <td>Viscosity</td> <td></td> </tr> <tr> <td> cSt at 40 Deg. C</td> <td>38.8-48.4</td> </tr> <tr> <td> cSt at 100 Deg. C</td> <td>5-7.6</td> </tr> <tr> <td>Gravity API</td> <td>28.5-30.6</td> </tr> <tr> <td>Ash. % (Sulfated)</td> <td>< .65</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	Viscosity Index	> 105	Pour Point	< -20 Deg. F	Flash Point	> 405 Deg. F	Viscosity		cSt at 40 Deg. C	38.8-48.4	cSt at 100 Deg. C	5-7.6	Gravity API	28.5-30.6	Ash. % (Sulfated)	< .65
SAE Grade	10W																		
Viscosity Index	> 105																		
Pour Point	< -20 Deg. F																		
Flash Point	> 405 Deg. F																		
Viscosity																			
cSt at 40 Deg. C	38.8-48.4																		
cSt at 100 Deg. C	5-7.6																		
Gravity API	28.5-30.6																		
Ash. % (Sulfated)	< .65																		
Notes: Conforming Commercial Products: Shell Rotella T/10W (Product Code 54101) Shell Rotella T1 SAE 10W (550019855) Texaco Ursa Super Plus (Code# 222110) Mobil Hydraulic 10W (103164)																			
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 and Conforming Products MARCH 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.: AU-8 Issue Date: MARCH 1990 Sheet No.: 1 of 1	
PVSC ENGINEERING STANDARD		TITLE High Detergent SAE 20W	
Purpose/Objective: Procurement Specification; Lubricant			
Description:			
PVSC Stock Number(s): 55 Gal. – 0193026			
SAE Grade		20W	
Viscosity Index		> 100	
Pour Point		< -15	Deg. F
Flash Point		> 415	Deg. F
Viscosity			
cSt at 40 Deg. C		62	
cSt at 100 Deg. C		7.6-8.5	
Gravity, API		28.1	
Ash. % (Sulfated)		.80-1.0	
<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>			
Notes:			
Conforming Commercial Products:			
Mobil Delvac 1220 (100916)			
Used on (PVSC Equipment):			
Prepared by: KB/FG		Revisions:	
Date: March 1990		March 1990 JAN. 1999 – Added ISO 9000 requirement Jan. 2003 – Revised Performance and Conforming Products MARCH 2015 - Revised	
<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-9 Issue Date: JAN 1992 Sheet No.: 1 of 1	
PVSC ENGINEERING STANDARD		TITLE 5W 30 Automotive Engine Oil AP1/SN	
Purpose/Objective: Procurement Specification; Lubricant			
Description:			
PVSC Stock Number(s): 55 Gal. – 0190137			
SAE Grade		5W-30	
Viscosity Index		> 155	
Pour Point		< -37	Deg. F
Flash Point		> 391	Deg. F
Viscosity			
cSt at 40 Deg. C		62.0-66.1	
cSt at 100 Deg. C		10.5-11.0	
Gravity API		32.4-33.0	
Ash. % (Sulfated)		0.96	
Copper %		0.012	
<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>			
Notes:			
Conforming Commercial Products:			
Shell Formulashell Motor Oil (Product Code 50200) Texaco – Havoline (Code # 223394) Mobil Special X1 5W30 (112932)			
Used on (PVSC Equipment):			
Prepared by: KB/FG Date: Jan. 1992		Revisions:	
		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			

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

11910.5 Lubricant Specification			
PASSAIC VALLEY SEWERAGE COMMISSION PLANT ENGINEERING DEPARTMENT 600 Wilson Avenue, Newark, NJ 07105		Spec. No.: AU-12 Issue Date: JAN 1997 Sheet No.: 1 of 1	
PVSC ENGINEERING STANDARD		TITLE Dexron VI Transmission Fluid	
Purpose/Objective: Procurement Specification; Lubricant			
Description:			
		PVSC Stock Number(s): 55 Gal. 5 Gal.	
SAE Grade			
Viscosity Index		145-147	
Pour Point		<-40 Deg. F	
Flash Point		428 Deg. F	
Viscosity			
cSt at 40 Deg. C		29.5-30.6	
cSt at 100 Deg. C		5.83-6.0	
Rust ASTM D665:			
Gravity API		>31.3	
Color		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.			
Notes:			
Conforming Commercial Products:			
Mobil ATF Dexron VI Chevron Havoline Automatic Transmission Fluid Dexron VI			
Used on (PVSC Equipment):			
Prepared by: KB/FG Date: Jan. 1997		Revisions: JAN. 1999 – Added ISO 9000 requirement Jan. 2003 – Revised Performance Requirements and Conforming Products MARCH 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.: AU-13 Issue Date: Jan 2003 Sheet No.: 1 of 1	
PVSC ENGINEERING STANDARD		TITLE 75W 90 Synthetic Gear Lubricant	
Purpose/Objective: Procurement Specification; Lubricant			
Description:			
PVSC Stock Number(s):			
35 Lb. Container (5 Gal.)			
SAE Grade	75W-90		
Viscosity Index	140		
Pour Point	-48	Deg. F	
Flash Point	205	Deg. F	
Viscosity			
cSt at 40 Deg. C	120		
cSt at 100 Deg. C	15.9		
Gravity API	33.3		
API Classification	MT-1 / GL-5EP		
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 Synthetic Gear Oil 75W-90			
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			
Used on (PVSC Equipment):			
Prepared by: JB Date: Jan 2003 Approved by: Date:		Revisions: MARCH 2015 - Revised	
<small>2010 PVSC Spec/lzf</small>			

GENERAL PURPOSE GREASE SPECIFICATIONS

PVSC SPEC NO.	DESCRIPTION	INDUSTRIAL / COMMERCIAL DESIGNATION
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

11910.5 Lubricant Specification																				
PASSAIC VALLEY SEWERAGE COMMISSION PLANT ENGINEERING DEPARTMENT 600 Wilson Avenue, Newark, NJ 07105		Spec. No.: GR-1 Issue Date: MARCH 1990 Sheet No.: 1 of 1																		
PVSC ENGINEERING STANDARD		TITLE NLGI – 0 High Base Oil Viscosity Grease																		
Purpose/Objective: Procurement Specification; Lubricant																				
Description: <div style="text-align: right;"> PVSC Stock Number(s): 120 Lb. – 35 Lb. - 0193044 </div> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 40%;">Operating Temperature Range</td> <td style="width: 30%; text-align: center;">10-200</td> <td style="width: 30%; text-align: center;">Deg. F</td> </tr> <tr> <td>Sodium Soap, %</td> <td style="text-align: center;">7%</td> <td></td> </tr> <tr> <td>Penetration, ASTM @ 77 Deg. F Worked</td> <td style="text-align: center;">370</td> <td></td> </tr> <tr> <td colspan="3"> Oil Viscosity</td> </tr> <tr> <td>cSt at 40 Deg. C</td> <td style="text-align: center;">880</td> <td></td> </tr> <tr> <td>cSt at 100 Deg. C</td> <td style="text-align: center;">37</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>			Operating Temperature Range	10-200	Deg. F	Sodium Soap, %	7%		Penetration, ASTM @ 77 Deg. F Worked	370		 Oil Viscosity			cSt at 40 Deg. C	880		cSt at 100 Deg. C	37	
Operating Temperature Range	10-200	Deg. F																		
Sodium Soap, %	7%																			
Penetration, ASTM @ 77 Deg. F Worked	370																			
 Oil Viscosity																				
cSt at 40 Deg. C	880																			
cSt at 100 Deg. C	37																			
Notes: Conforming Commercial Products:																				
Used on (PVSC Equipment):																				
Prepared by: KB/FG Date: March 1990		Revisions: EWD – Jan. 1997 - Added 35 Lb. Stock No. 193044 Jan. 1999 – Added ISO 9000 requirement Jan 2003 – Revised Performance Requirements																		
<small>2010 PVSC Spec/lzf</small>																				

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

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

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

11910.5 Lubricant Specification	
PASSAIC VALLEY SEWERAGE COMMISSION PLANT ENGINEERING DEPARTMENT 600 Wilson Avenue, Newark, NJ 07105	Spec. No.: GR-4 Issue Date: MARCH 1990 Sheet No.: 1 of 1
PVSC ENGINEERING STANDARD	TITLE NLGI – 2 Multi-Purpose Grease
Purpose/Objective: Procurement Specification; Lubricant	
Description:	
	PVSC Stock Number(s): 400 Lb. – 0193049 35 Lb. Container
Soap Type	Lithium Complex
Penetration @ 77 Deg. F, worked	265-295
Struct:	Smooth
Mineral Oil Base Viscosity	
cSt at 40 Deg. C	220
cSt at 100 Deg. C	13
Drop Point °C (°F) min.	248 (475)
Corrosion Prevention (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:	
Mobil Grease xhpzzz	
Used on (PVSC Equipment):	
Prepared by: KB/FG Date: March 1990	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
2010 PVSC Spec/lzf	

11910.5 Lubricant Specification	
PASSAIC VALLEY SEWERAGE COMMISSION PLANT ENGINEERING DEPARTMENT 600 Wilson Avenue, Newark, NJ 07105	Spec. No.: GR-5 Issue Date: MARCH 1990 Sheet No.: 1 of 1
PVSC ENGINEERING STANDARD	TITLE NLGI – 2 Low Base Oil Viscosity Grease
Purpose/Objective: Procurement Specification; Lubricant	
Description:	
	PVSC Stock Number(s): 400 Lb. – 0193050 35 Lb., 120 Lb. containers
Color	Amber
Dropping Point, Deg. F	365
Penetration, worked 60 strokes	287
Oxidation Test, 100 hrs. at 210 Deg. F, psi Drop	6
Rust Prevention Rating	1
Oil Viscosity	
cSt at 40 Deg. C	100
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 V100 2	
Used on (PVSC Equipment):	
Prepared by: KB/FG Date: March 1990	Revisions: EWD – Jan. 1997 – Added 35 Lb. JAN 1999 – Added ISO 9000 requirement Jan 2003 – Revised Performance Requirements MARCH 2024 – added 120 Lb. container
<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-6 Issue Date: MARCH 1990 Sheet No.: 1 of 1	
PVSC ENGINEERING STANDARD		TITLE NLGI – 3 Multi-Purpose Grease	
Purpose/Objective: Procurement Specification; Lubricant			
Description:			
		PVSC Stock Number(s): 120 Lb. –	
ISO Viscosity		220	
Soap Type		Lithium Complex	
Penetration @ 77 Deg. F, worked		235	
Struct:		Smooth	
Mineral Oil Base Viscosity			
cSt at 40 Deg. C		220	
cSt at 100 Deg. C		13	
Drop Point		475 Deg. F	
Corrosion Prevention (ASTM D 1743)		Pass	
<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>			
Notes:			
Conforming Commercial Products:			
Mobilgrease XHP 223 (103393)			
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	
<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.

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

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**

11910.5 Lubricant Specification																			
PASSAIC VALLEY SEWERAGE COMMISSION PLANT ENGINEERING DEPARTMENT 600 Wilson Avenue, Newark, NJ 07105	Spec. No.: GR-8 Issue Date: MARCH 1990 Sheet No.: 1 of 1																		
PVSC ENGINEERING STANDARD	TITLE NLGI – 0 EP Lithium Soap EP Grease																		
Purpose/Objective: Procurement Specification; Lubricant																			
Description: <p style="text-align: right;">PVSC Stock Number(s): 400 Lb. – 0193052 120 Lb. 35 Lb. - 0193060</p> <table> <tr> <td>Soap Type</td> <td>Lithium 12 Hydroxy Stearate</td> </tr> <tr> <td>Dropping Point, Deg. F</td> <td>340-375</td> </tr> <tr> <td>Penetration, worked 60 strokes</td> <td>355-385</td> </tr> <tr> <td>Bomb Oxidation, 100 hrs. at 210 Deg. F, psi Drop</td> <td>3-10</td> </tr> <tr> <td>Timken OK Load, Lbs.</td> <td>40-45</td> </tr> <tr> <td>Base Oil Viscosity</td> <td></td> </tr> <tr> <td> cSt at 40 Deg. C</td> <td>220</td> </tr> <tr> <td> cSt at 100 Deg. C</td> <td>14-16</td> </tr> <tr> <td>Rust Test (ASTM D 1743)</td> <td>Pass</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>		Soap Type	Lithium 12 Hydroxy Stearate	Dropping Point, Deg. F	340-375	Penetration, worked 60 strokes	355-385	Bomb Oxidation, 100 hrs. at 210 Deg. F, psi Drop	3-10	Timken OK Load, Lbs.	40-45	Base Oil Viscosity		cSt at 40 Deg. C	220	cSt at 100 Deg. C	14-16	Rust Test (ASTM D 1743)	Pass
Soap Type	Lithium 12 Hydroxy Stearate																		
Dropping Point, Deg. F	340-375																		
Penetration, worked 60 strokes	355-385																		
Bomb Oxidation, 100 hrs. at 210 Deg. F, psi Drop	3-10																		
Timken OK Load, Lbs.	40-45																		
Base Oil Viscosity																			
cSt at 40 Deg. C	220																		
cSt at 100 Deg. C	14-16																		
Rust Test (ASTM D 1743)	Pass																		
Notes: Conforming Commercial Products: Shell Gadus S2-V220 0 Mobilux EP 0 Chevron Multifak EPO (Code 274501)																			
Used on (PVSC Equipment):																			
Prepared by: KB/FG Date: March 1990	Revisions: March 1990 2/26/91 – Note #1 Added EWD – Jan. 1997 - Added 120 Lb. & 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.																		
2010 PVSC Spec/lzf																			

11910.5 Lubricant Specification																			
PASSAIC VALLEY SEWERAGE COMMISSION PLANT ENGINEERING DEPARTMENT 600 Wilson Avenue, Newark, NJ 07105	Spec. No.: GR-9 Issue Date: MARCH 1990 Sheet No.: 1 of 1																		
PVSC ENGINEERING STANDARD	TITLE NLGI – 1 EP Lithium Soap EP Grease																		
Purpose/Objective: Procurement Specification; Lubricant																			
Description: <p style="text-align: right;">PVSC Stock Number(s): 5 Lb. Container – 0193059</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">Soap Type</td> <td>Lithium 12 Hydroxy Stearate</td> </tr> <tr> <td>Dropping Point, Deg. F</td> <td>365-385</td> </tr> <tr> <td>Penetration, worked 60 strokes</td> <td>310-340</td> </tr> <tr> <td>Bomb Oxidation, 100 hrs. at 210 Deg. F, psi Drop</td> <td>3-10</td> </tr> <tr> <td>Timken OK Load, Lbs.</td> <td>40-45</td> </tr> <tr> <td>Base Oil Viscosity</td> <td></td> </tr> <tr> <td> cSt at 40 Deg. C</td> <td>220</td> </tr> <tr> <td> cSt at 100 Deg. C</td> <td>14-18</td> </tr> <tr> <td>Rust Test (ASTM D 1743)</td> <td>Pass</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>		Soap Type	Lithium 12 Hydroxy Stearate	Dropping Point, Deg. F	365-385	Penetration, worked 60 strokes	310-340	Bomb Oxidation, 100 hrs. at 210 Deg. F, psi Drop	3-10	Timken OK Load, Lbs.	40-45	Base Oil Viscosity		cSt at 40 Deg. C	220	cSt at 100 Deg. C	14-18	Rust Test (ASTM D 1743)	Pass
Soap Type	Lithium 12 Hydroxy Stearate																		
Dropping Point, Deg. F	365-385																		
Penetration, worked 60 strokes	310-340																		
Bomb Oxidation, 100 hrs. at 210 Deg. F, psi Drop	3-10																		
Timken OK Load, Lbs.	40-45																		
Base Oil Viscosity																			
cSt at 40 Deg. C	220																		
cSt at 100 Deg. C	14-18																		
Rust Test (ASTM D 1743)	Pass																		
Notes: Conforming Commercial Products: Shell Gadus S2 V220 1 Mobilux EP 1 Chevron Multifax EPI (Code 274502)																			
Used on (PVSC Equipment):																			
Prepared by: KB/FG Date: March 1990	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																		
2010 PVSC Spec/lzf																			

11910.5 Lubricant Specification	
PASSAIC VALLEY SEWERAGE COMMISSION PLANT ENGINEERING DEPARTMENT 600 Wilson Avenue, Newark, NJ 07105	Spec. No.: GR-10 Issue Date: MARCH 1990 Sheet No.: 1 of 1
PVSC ENGINEERING STANDARD	TITLE NLGI – 2 EP Lithium Soap EP Grease
Purpose/Objective: Procurement Specification; Lubricant	
Description:	
	PVSC Stock Number(s): 35 Lb. Drum – 0193057 120 Lb. Drum - 14-1/2 Oz. Cartridge Lithium 12 Hydroxy Stearate
Soap Type	
Dropping Point, Deg. F	365-385
Penetration, worked 60 strokes	265-295
Bomb Oxidation, 100 hrs. at 210 Deg. F, psi Drop	3-10
Timken OK Load, Lbs.	40-45
Base Oil Viscosity	
cSt at 40 Deg. C	220
cSt at 100 Deg. C	14-18
Rust Test (ASTM D 1743)	Pass
<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>	
Notes: Conforming Commercial Products: Shell Gadus S2 V220 2 Mobilux EP 2 Chevron Multifak EP2 (Code 274503)	
Used on (PVSC Equipment):	
Prepared by: KB/FG Date: March 1990	Revisions: 3/91 – Change in Stock Numbers EWD – Jan. 1997: Changed Stock No. 0193055 to 0193057 Added 14-1/2 Oz. Cartridge JAN 1999 – Added ISO 9000 requirement JAN 2003 – Revised Performance Requirements and Conforming Products MARCH 2024 – Deleted stock code
<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**

11910.5 Lubricant Specification	
PASSAIC VALLEY SEWERAGE COMMISSION PLANT ENGINEERING DEPARTMENT 600 Wilson Avenue, Newark, NJ 07105	Spec. No.: GR-12 Issue Date: MARCH 1990 Sheet No.: 1 of 1
PVSC ENGINEERING STANDARD	TITLE NLGI – 1 EP Non-Soap EP Grease
Purpose/Objective: Procurement Specification; Lubricant	
Description:	
	PVSC Stock Number(s): 35 Lbs. - 0193055
Dropping Point, Deg. F	> 500
Penetration, worked 60 strokes	310-340
Oil Viscosity	
cSt at 100 Deg. C	10-32
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:	
Shell Gadus S2 V1000 1 ISO 1000 Lubriplate 930 AA ISO 135 Mobil Temp 78 (Product Code 64019-3) ISO 460	
Used on (PVSC Equipment):	
Prepared by: KB/FG Date: March 1990	Revisions: 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
<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-13 Issue Date: MARCH 1990 Sheet No.: 1 of 1
PVSC ENGINEERING STANDARD	TITLE NLGI – 2 EP Non-Soap EP Grease
Purpose/Objective: Procurement Specification; Lubricant	
Description:	
	PVSC Stock Number(s): 400 Lbs. – 0193086 120 Lbs. - 0193083
Dropping Point, Deg. F	> 500
Penetration, worked 60 strokes	265-295
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: Shell Gadus S2 V1000 2 Lubriplate 930-2	
Used on (PVSC Equipment):	
Prepared by: KB/FG Date: March 1990 Approved by: Date:	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
<small>2010 PVSC Spec/lzf</small>	

LUBRICATING OILS, INDUSTRIAL SPECIFICATIONS

PVSC SPEC NO.	DESCRIPTION	INDUSTRIAL / COMMERCIAL DESIGNATION
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

11910.5 Lubricant Specification			
PASSAIC VALLEY SEWERAGE COMMISSION PLANT ENGINEERING DEPARTMENT 600 Wilson Avenue, Newark, NJ 07105		Spec. No.: LO-1-22 Issue Date: MARCH 1990 Sheet No.: 1 of 1	
PVSC ENGINEERING STANDARD		TITLE Light Flushing Oil (SAE10)	
Purpose/Objective: Procurement Specification; Lubricant			
Description:			
		PVSC Stock Number(s) - 0193001 55 Gal.	
ISO Viscosity		22	
Viscosity Index		95	
Pour Point		-15	Deg. F
Flash Point		335	Deg. F
Viscosity			
cSt at 40 Deg. C		20	
cSt at 100 Deg. C		3.8	
Rust ASTM D665:		-	
Medium Viscosity Neutral Oils (No Additives)			
<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>			
Notes:			
Conforming Commercial Products:			
Shell Base Stock Oil – M.V.I. - 100 Neutral Code #100 EXXON - Americas Core 100 B.P. - Energol - HL 22			
Used on (PVSC Equipment):			
Prepared by: KB/FG Date: FEB 1985		Revisions: 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.:	LO-4-46
	Issue Date:	MAR 1990
	Sheet No.:	1 of 1

PVSC ENGINEERING STANDARD	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 ml foam at 0/10 minutes	20/0	
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-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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11910.5 Lubricant Specifications			
PASSAIC VALLEY SEWERAGE COMMISSION PLANT ENGINEERING DEPARTMENT 600 Wilson Avenue, Newark, NJ 07105		Spec. No.: LO-5-68 Issue Date: MAR 1990 Sheet No.: 1 of 1	
PVSC ENGINEERING STANDARD		TITLE General Purpose Gear Oil ISO-68	
Purpose/Objective: Procurement Specification, Lubricant			
Description:			
			PVSC Stock No. 0193005 Container Size: 55 Gal. Drum
General Purpose Gear Oil			
ISO Viscosity:		68	
Viscosity Index:		95 – 108	
Pour Point		<20°F	
Flash Point		>400°F	
Neut. No.		0.20 – 0.40	
Viscosity			
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	
Rust & Oxidation Inhibited			
Anti-Wear & Anti-Foam Additive			
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>			
Notes:			
<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>			
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 MARCH 2015 - Revised	
<small>2010 PVSC Spec/lzf</small>			

11910.5 Lubricant Specifications			
PASSAIC VALLEY SEWERAGE COMMISSION PLANT ENGINEERING DEPARTMENT 600 Wilson Avenue, Newark, NJ 07105		Spec. No.: LO-6-100 Issue Date: MAR 1990 Sheet No.: 1 of 1	
PVSC ENGINEERING STANDARD		TITLE General Purpose Gear Oil ISO-100	
Purpose/Objective: Procurement Specification, Lubricant			
Description:			
			PVSC Stock No. 0193006 Container Size: 55 Gal. Drum
General Purpose Gear Oil			
ISO Viscosity:		100	
Viscosity Index:		95 – 108	
Pour Point		<20°F	
Flash Point		>410° F	
Neut. No.		0.20 – 0.40	
Viscosity			
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	
Rust & Oxidation Inhibited			
Anti-Wear & Anti-Foam Additive			
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>			
Notes:			
<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>			
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 MARCH 2015 - Revised	
<small>2010 PVSC Spec/lzf</small>			

11910.5 Lubricant Specifications			
PASSAIC VALLEY SEWERAGE COMMISSION PLANT ENGINEERING DEPARTMENT 600 Wilson Avenue, Newark, NJ 07105		Spec. No.: LO-7-150 Issue Date: MAR 1990 Sheet No.: 1 of 1	
PVSC ENGINEERING STANDARD		TITLE General Purpose Gear Oil ISO-150	
Purpose/Objective: Procurement Specification, Lubricant			
Description:			
PVSC Stock No. 0193007 55. Gallon Drum 0193009 5 Gallon Container			
General Purpose Gear Oil			
ISO Viscosity:		150	
Viscosity Index:		88 – 97	
Pour Point		<25°F	
Flash Point		>440°F	
Neut. No.		0.40 – 1.2	
Viscosity			
cSt @ 40°C		140 – 157.5	
cSt @ 100°C		14.0-14.7	
API Gravity		26.5-29.7	
Specific Gravity		0.887	
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		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-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>			
Notes:			
<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>			
Used on (PVSC Equipment, Principal Usage):			
Gear reduction units			
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 MARCH 2015 - Revised	
<small>2010 PVSC Spec/lzf</small>			

11910.5 Lubricant Specifications			
PASSAIC VALLEY SEWERAGE COMMISSION PLANT ENGINEERING DEPARTMENT 600 Wilson Avenue, Newark, NJ 07105		Spec. No.: LO-8-220 Issue Date: MAR 1990 Sheet No.: 1 of 1	
PVSC ENGINEERING STANDARD		TITLE General Purpose Gear Oil ISO-220	
Purpose/Objective: Procurement Specification, Lubricant			
Description:			
PVSC Stock No. 0193008 Container Size: 55 Gal. Drum 5 Gal. Container			
General Purpose Gear Oil			
ISO Viscosity:		220	
Viscosity Index:		90-96	
Pour Point		<25°F	
Flash Point		>440°F	
Neut. No.		-1.2	
Viscosity			
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	
Rust & Oxidation Inhibited			
Anti-Wear & Anti-Foam Additive			
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>			
Notes:			
<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>			
Used on (PVSC Equipment, Principal Usage):			
Gear reduction units			
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 MARCH 2015 - Revised	
2010 PVSC Spec/al			

11910.5 Lubricant Specifications

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

Spec. No.: LO-14-150 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. 0193014
 Container Size: 400 lb. Drum (55 Gal.)

Extreme Pressure Gear Oil

AGMA Grade	4 EP
ISO Viscosity:	150 EP
Viscosity Index:	95-102
Pour Point	-25 ^o F – - 10 ^o F
Flash Point	410 ^o – 464 ^o F
Viscosity	
cSt @ 40 ^o C	141 - 159
cSt @ 100 ^o C	14 – 19
API Gravity	27 – 29.7
Copper Corrosion @ 212 ^o 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

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

AGMA Grade	7 EP
ISO Viscosity:	460 EP
Viscosity Index:	95 – 102
Pour Point	-10°F – +20°F
Flash Point	440 – 475°F
Viscosity	
cSt @ 40°C	437 – 460
cSt @ 100°C	29 – 33
API Gravity	24 – 29
Copper Corrosion @ 212°F ASTM D-130	1
Demulsibility, ASTM D-2711	
Free Water, ml	80 – 82
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
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-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

11910.5 Lubricant Specifications	
PASSAIC VALLEY SEWERAGE COMMISSION	Spec. No.: LO-18-680 EP
PLANT ENGINEERING DEPARTMENT	Issue Date: MAR 1990
600 Wilson Avenue, Newark, NJ 07105	Sheet No.: 1 of 1
PVSC ENGINEERING STANDARD	TITLE General Purpose Extreme Pressure Gear Oil
Purpose/Objective: Procurement Specification, Lubricant	
Description:	
	PVSC Stock Number(s):
	400 Lb. Drum (55 Gal.) - 0193018
	35 lb. Drum (5 Gal.) - 0193013
<u>Extreme Pressure Gear Oil</u>	
AGMA Grade	8 EP
ISO Viscosity:	680 EP
Viscosity Index:	90 – 100
Pour Point	5°F – 20°F
Flash Point	450° – 475°F
Viscosity	
cSt @ 40°C	645 – 700
cSt @ 100°C	37 – 41
API Gravity	25 – 26
Copper Corrosion @ 212°F ASTM D-130	1
Demulsibility, ASTM D-2711	
Free Water, ml	82 – 87
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	45-48
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
<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>	
Notes:	
<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>	
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
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^oF – 20^oF
Flash Point 500^oF – 590^oF

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
PVSC ENGINEERING STANDARD	TITLE General Purpose Extreme Pressure Gear Oil
Purpose/Objective: Procurement Specification, Lubricant	
Description:	
	PVSC Stock No. Container Size: 400 lb. Drum (55 Gal.)
<u>Extreme Pressure Gear Oil</u>	
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
<p>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.</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>	
Notes:	
<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>	
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.)
<u>Extreme Pressure Gear Oil</u>	
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
<p>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.</p>	
Notes:	
<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>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.</p>	
Used on (PVSC Equipment, Principal Usage):	
Decant Storage Rake Drives	
Prepared by: SMA	Revisions:
Date: MAR 2024	
<small>2010 PVSC Spec/lzf</small>	

11910.5 Lubricant Specifications			
PASSAIC VALLEY SEWERAGE COMMISSION PLANT ENGINEERING DEPARTMENT 600 Wilson Avenue, Newark, NJ 07105		Spec. No.: LO-22-680 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. 140000083 Container Size: 5 Gal. pail
<u>Extreme Pressure Gear Oil</u>			
AGMA Grade	9005-E02-EP		
ISO Viscosity:	680 EP		
Viscosity Index:	151		
Pour Point	-25° C		
Flash Point	270° C		
Viscosity			
cSt @ 40°C	671		
cSt @ 100°C	48.4		
API Gravity	25-26		
Copper Corrosion @ 212°F ASTM D-130	1B		
FZG, Load Stage	12		
Specific Gravity	0.88		
Rust Prevention	Pass		
<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>			
Notes:			
<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>			
Used on (PVSC Equipment, Principal Usage):			
Gear reduction units			
Prepared by: SMA Date: MAR 2024		Revisions:	
<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
Viscosity		
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

PVSC SPEC NO.	DESCRIPTION	INDUSTRIAL / COMMERCIAL DESIGNATION
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="1"> <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>PVSC ENGINEERING STANDARD</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>PVSC ENGINEERING STANDARD</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>PVSC ENGINEERING STANDARD</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 -15 to +250 Deg. F Solvent (Softening) Mineral Oil Solvent (Dissolving) Trichloroethylene Color: Black</p> <p><u>Principal Services</u></p> <p>Extra soft lubricant for freeing hard operating valves on water and gas service. Resistant to water dilute acids and alkalies.</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 #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;">PVSC ENGINEERING STANDARD</p>	TITLE Valve Sealant												
Purpose/Objective: Procurement Specification; Lubricant													
<p>Description:</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;">Temperature Range</th> <th style="text-align: center;">Degree F</th> <th style="text-align: center;">Degree C</th> <th style="text-align: right;"><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 style="text-align: right;">White</td> </tr> </tbody> </table> <p><u>Principal Services</u></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><u>Unsuitable for:</u></p> <p>Gasoline and light liquid hydrocarbons, strong mineral acids, aromatic and chlorinated solvents.</p> <p><u>ISO 9000 Registration is waived for the Manufacturer of this product.</u></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>Notes:</p> <p>Conforming Commercial Products:</p> <p style="text-align: center;">Nordstrom Valve Sealant 234</p>													
<p>Used on (PVSC Equipment):</p>													
<p>Prepared by: JB Date: Jan 2003</p>	<p>Revisions:</p>												

11910.5 Lubricant Specification

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

11910.5 Lubricant Specification

PASSAIC VALLEY SEWERAGE COMMISSION PLANT ENGINEERING DEPARTMENT 600 Wilson Avenue, Newark, NJ 07105	Spec. No.: SE-10 Issue Date: Jan 2003 Sheet No.: 1 of 1						
PVSC ENGINEERING STANDARD	TITLE Anti Seize Paste						
Purpose/Objective: Procurement Specification; Lubricant							
Description: <table><tr><td>PVSC Stock Number(s) – 1 Lb. Container</td></tr><tr><td>Temperature Range, Degrees -22°F to 1202°F (-30°C to 650°C)</td></tr><tr><td>Specific Gravity 1.26</td></tr><tr><td>Penetration (unworked) 280-310</td></tr><tr><td>Four Ball Wear Scar 0.08mm</td></tr><tr><td>Four Ball Weld Load 4800N</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> <p>Notes: Conforming Commercial Products: Dow Corning Molykote 1000 NO SUBSTITUTES WILL BE ACCEPTED</p>		PVSC Stock Number(s) – 1 Lb. Container	Temperature Range, Degrees -22°F to 1202°F (-30°C to 650°C)	Specific Gravity 1.26	Penetration (unworked) 280-310	Four Ball Wear Scar 0.08mm	Four Ball Weld Load 4800N
PVSC Stock Number(s) – 1 Lb. Container							
Temperature Range, Degrees -22°F to 1202°F (-30°C to 650°C)							
Specific Gravity 1.26							
Penetration (unworked) 280-310							
Four Ball Wear Scar 0.08mm							
Four Ball Weld Load 4800N							
Used on (PVSC Equipment):							
Prepared by: JB Date: Jan 2003	Revisions:						

LUBRICATING OILS, SPECIAL PURPOSE SPECIFICATIONS

PVSC SPEC NO.	DESCRIPTION	INDUSTRIAL / COMMERCIAL DESIGNATION
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 –

ISO Viscosity	32	
Viscosity Index	7.5	
Pour Point	-40	Deg. F
Flash Point	334	Deg. F

Viscosity

cSt at 40 Deg. C	29.5
cSt at 100 Deg. C	4.3

**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**

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

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

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

11910.5 Lubricant Specification	
PASSAIC VALLEY SEWERAGE COMMISSION PLANT ENGINEERING DEPARTMENT 600 Wilson Avenue, Newark, NJ 07105	Spec. No.: SP-5 Issue Date: MARCH 1990 Sheet No.: 1 of 1
PVSC ENGINEERING STANDARD	TITLE Soluble Oil
Purpose/Objective: Procurement Specification; Lubricant	
Description:	
	PVSC Stock Number(s) – 1 Gal. Container – 0193031
Gravity, Deg. API	18.3
Viscosity	
cSt at 40.0 Deg. C	66.6
cSt at 100 Deg. C	7.1
Sulfur, %	1.7
Chlorine, %	2.0
Emulsifiers, %	14.5
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 Cut-N-Cool	
Used on (PVSC Equipment):	
Prepared by: KB/FG Date: FEB 1985	Revisions: JAN 1999 – Added ISO 9000 requirement Jan. 2003 – Revised Performance Requirements and Conforming Products
<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-6 Issue Date: MARCH 1990 Sheet No.: 1 of 1
PVSC ENGINEERING STANDARD	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]
Viscosity		
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 #

11910.5 Lubricant Specification			
PASSAIC VALLEY SEWERAGE COMMISSION		Spec. No.:	SP-8
PLANT ENGINEERING DEPARTMENT		Issue Date:	MARCH 1990
600 Wilson Avenue, Newark, NJ 07105		Sheet No.:	1 of 1
PVSC ENGINEERING STANDARD		TITLE	Inhibited Insulating Oil
Purpose/Objective: Procurement Specification; Lubricant			
Description:			
		PVSC Stock Number(s) – 15 Gal. Container	
ISO Viscosity			
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	
AGMA Grade:			
Gravity, API		27.2-28.4	
Dielectric Strength K		>38	
Power Factor % at 100 Deg. C		<.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:			
<p style="margin-left: 40px;"> Texaco Transformer Oil Inhibited (Code#221515) Shell Diala S2 ZX-A Exxon Univolt N61 </p>			
Used on (PVSC Equipment):			
Prepared by: KB/FG Date: March 1990 Approved by: Date:		Revisions: March 1990 EWD – Jan. 1997 - Added 15 Gal. Container 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-9 Issue Date: MARCH 1990 Sheet No.: 1 of 1																						
PVSC ENGINEERING STANDARD	TITLE Two Cycle Engine Oil																						
Purpose/Objective: Procurement Specification; Lubricant																							
Description: <div style="text-align: right;">PVSC Stock Number(s) – 8 Oz. Container 1 Gal. Container</div> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">NMMA TC – W3</td> <td style="width: 50%; text-align: center;">Certified</td> </tr> <tr> <td>SAE Viscosity</td> <td style="text-align: center;">40</td> </tr> <tr> <td>Viscosity Index</td> <td style="text-align: center;">117 (Min.)</td> </tr> <tr> <td>Pour Point</td> <td style="text-align: center;"><-25 Deg. F</td> </tr> <tr> <td>Flash Point</td> <td style="text-align: center;">>180 Deg. F</td> </tr> <tr> <td colspan="2">Viscosity</td> </tr> <tr> <td style="padding-left: 20px;">cSt at 40 Deg. C</td> <td style="text-align: center;">46.5</td> </tr> <tr> <td style="padding-left: 20px;">cSt at 100 Deg. C</td> <td style="text-align: center;">7.3</td> </tr> <tr> <td>Gravity Deg. API</td> <td style="text-align: center;">29-32</td> </tr> <tr> <td>Ash. Wt., %</td> <td style="text-align: center;">0</td> </tr> <tr> <td>Color</td> <td style="text-align: center;">Blue / Green-Purple</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>		NMMA TC – W3	Certified	SAE Viscosity	40	Viscosity Index	117 (Min.)	Pour Point	<-25 Deg. F	Flash Point	>180 Deg. F	Viscosity		cSt at 40 Deg. C	46.5	cSt at 100 Deg. C	7.3	Gravity Deg. API	29-32	Ash. Wt., %	0	Color	Blue / Green-Purple
NMMA TC – W3	Certified																						
SAE Viscosity	40																						
Viscosity Index	117 (Min.)																						
Pour Point	<-25 Deg. F																						
Flash Point	>180 Deg. F																						
Viscosity																							
cSt at 40 Deg. C	46.5																						
cSt at 100 Deg. C	7.3																						
Gravity Deg. API	29-32																						
Ash. Wt., %	0																						
Color	Blue / Green-Purple																						
Notes: Conforming Commercial Products: Texaco Havoline Two-Cycle Engine Oil (Code#221896) Mobil Superflo 2-Cycle Supreme																							
Used on (PVSC Equipment): All two cycle internal combustion gasoline engines where gasoline and oil are mixed.																							
Prepared by: KB/FG Date: March 1990	Revisions: March 1990 EWD – Jan. 1997 - Added 8 Oz. Container JAN 1999 – Added ISO 9000 requirement Jan 2003 – Revised Performance Requirements and Conforming Products APRIL 2015 - Revised																						
<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**

11910.5 Lubricant Specification	
PASSAIC VALLEY SEWERAGE COMMISSION PLANT ENGINEERING DEPARTMENT 600 Wilson Avenue, Newark, NJ 07105	Spec. No.: SP-11 Issue Date: JAN 1993 Sheet No.: 1 of 1
PVSC ENGINEERING STANDARD	TITLE Hydraulic Oil – Special Purpose
Purpose/Objective: Procurement Specification; Lubricant	
Description:	
	PVSC Stock Number(s) – 55 Gal.
ISO Viscosity	68
Viscosity Index	99
Pour Point	-25 Deg. F
Flash Point	460 Deg. F
Viscosity	
cSt at 40 Deg. C	68.0
cSt at 100 Deg. C	8.7
Rust ASTM D665:	Pass
AGMA Grade:	2
Rust & Oxidation Inhibited Anti-Wear Additives	
Zinc Content	550 PPM (Minimum)
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 Tellus Plus S2 MX68	
This is a special purpose lubricant. No other product will be considered for this application.	
Used on (PVSC Equipment):	
Centrifuge back drive – Interim Sludge Facility	
Prepared by: KB/FG Date: Jan. 1993	Revisions: 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-12 Issue Date: OCT 1994 Sheet No.: 1 of 1
PVSC ENGINEERING STANDARD		TITLE Turbine Oil – Special Purpose
Purpose/Objective: Procurement Specification; Lubricant		
Description:		
PVSC Stock Number(s) – 55 Gal. - 0193099		
ANSI / AGMA 9005-D94	Pass	
ISO Viscosity	32	
API Gravity	30-33.5	
Viscosity Index	> 100	
ASTM Color Index	1 to 3	
Pour Point	< -20	Deg. F
Flash Point	> 385	Deg. F
Ash, Wt. %	< 0.002	
Viscosity		
cSt at 40 Deg. C	30.4-32	
cSt at 100 Deg. C	5.2-5.5	
SUS at 100 Deg. F	157	
SUS at 210 Deg. F	43.7	
Rust A & B (ASTM D-665)	Must Pass	
RBOT, Minutes	> 760	
Acid No. (ASTM D-974)	0.25	Max.
Turbine Oil Oxidation, hrs. to 2.0 Naturalization	4.350	
Emulsification (ASTM D-1401)	Complete separation in 15 Minutes or Less	
Foam (ASTM D-892)	Must 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:		
Texaco Product Code 220700 – Regal Oil R&O 32 - <u>NO SUBSTITUTES</u>		
Used on (PVSC Equipment):		
Oxygen Recirculation Compressors – Oxygenation Facility		
Prepared by: JMc Date: Oct. 1994	Revisions: EWD – Jan. 1997: Added Stock Number and No Substitutes JAN 1999 – Added ISO 9000 requirement Jan 2003 – Revised Performance Requirements and Conforming Products	
<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-13 Issue Date: JAN 1997 Sheet No.: 1 of 1
PVSC ENGINEERING STANDARD	TITLE 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
Distillation, ASTM D-1160	
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

Prepared by: EWD Date: Jan. 1997	Revisions: 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

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

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)
Viscosity	
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:

11910.5 Lubricant Specification			
PASSAIC VALLEY SEWERAGE COMMISSION PLANT ENGINEERING DEPARTMENT 600 Wilson Avenue, Newark, NJ 07105		Spec. No.:	SP-16
		Issue Date:	JAN 2003
		Sheet No.:	1 of 1
PVSC ENGINEERING STANDARD		TITLE	Biodegradable Hydraulic Oil
Purpose/Objective: Procurement Specification; Special Purpose Lubricant			
Description:			
	PVSC Stock Number(s) –		
	1200000107	55 Gal. Drum	
ISO Viscosity	46		
Viscosity Index	205		
Pour Point °C / °F	-30 / -22		
Flash Point °C / °F	225 / 437		
Viscosity			
cSt at 40 Deg. C	36.78		
cSt at 100 Deg. C	8.3		
Biodegradability, CEC-L-33-A94,%	80		
 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 EAL 224 H Vegetable Base Oil			
Used on (PVSC Equipment):			
Prepared by: JB		Revisions:	
Date: JAN 2003		APRIL 2015	
		MARCH 2024 – ADDED STOCK NUMBER	

11910.5 Lubricant Specification																															
PASSAIC VALLEY SEWERAGE COMMISSION PLANT ENGINEERING DEPARTMENT 600 Wilson Avenue, Newark, NJ 07105	Spec. No.: SP-17 Issue Date: Jan 2003 Sheet No.: 1 of 1																														
PVSC ENGINEERING STANDARD	TITLE Premium Circulating Oil																														
Purpose/Objective: Procurement Specification; Lubricant																															
<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 colspan="2">Viscosity</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>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> </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
ANSI / AGMA 9005-D94	Pass																														
ISO Viscosity	320																														
API Gravity	26.2																														
Viscosity Index	95																														
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Viscosity																															
cSt at 40 Deg. C	306																														
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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																														
Notes: Conforming Commercial Products: Mobil Teresstic Grade 320																															
Used on (PVSC Equipment):																															
Prepared by: JB Date: Jan 2003	Revisions: 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-18 Issue Date: Jan 2003 Sheet No.: 1 of 1
PVSC ENGINEERING STANDARD	TITLE Thread Cutting Oil
Purpose/Objective: Procurement Specification; Lubricant	
Description: <p style="text-align: right;">PVSC Stock Number(s) – 1 Gallon Container</p> <p>RIDGID Premium Nu-Clear Thread Cutting Oil (Catalog#70835) as manufactured by the Ridge Tool Company.</p>	
Notes: <p style="text-align: center;">This is a special purpose lubricant. No other product will be considered for this application.</p>	
Used on (PVSC Equipment):	
Prepared by: JB Date: Jan 2003	Revisions:
<small>2010 PVSC Spec/lzf</small>	

11910.5 Lubricant Specification			
PASSAIC VALLEY SEWERAGE COMMISSION	Spec. No.:		SP-19
PLANT ENGINEERING DEPARTMENT	Issue Date:		JAN 2003
600 Wilson Avenue, Newark, NJ 07105	Sheet No.:		1 of 1
PVSC ENGINEERING STANDARD	TITLE	Air Tool Oil	
Purpose/Objective: Procurement Specification; Special Purpose Lubricant			
Description:			
	PVSC Stock Number(s) –		
	1 Quart Container		
ISO Viscosity	46		
Viscosity Index	90		
Pour Point °C / °F	-29 / -20		
Flash Point °C / °F	188 / 370		
Viscosity			
cSt at 40 Deg. C	45		
cSt at 100 Deg. C	6.5		
Rust Protection ASTM D655 A&B	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:			
Mobil Almo 525 (Product#60318-3)			
Used on (PVSC Equipment):			
Prepared by: JB		Revisions:	
Date: JAN 2003			
<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-20 Issue Date: FEB 2007 Sheet No.: 1 of 1																
PVSC ENGINEERING STANDARD	TITLE Hydraulic Oil – Special Purpose																
Purpose/Objective: Procurement Specification; Lubricant																	
Description: <p style="text-align: right;">PVSC Stock Number(s) – 55 Gal. Drum – 5 Gallon Pail</p> <table> <tr> <td>ISO Viscosity</td> <td>100</td> </tr> <tr> <td>Viscosity Index</td> <td>95</td> </tr> <tr> <td>Pour Point</td> <td>-5 Deg. F</td> </tr> <tr> <td>Flash Point</td> <td>445 Deg. F</td> </tr> <tr> <td>Viscosity</td> <td></td> </tr> <tr> <td> cSt at 40 Deg. C</td> <td>100</td> </tr> <tr> <td> cSt at 100 Deg. C</td> <td>11.1</td> </tr> <tr> <td>Rust ASTM D665:</td> <td>Pass</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>		ISO Viscosity	100	Viscosity Index	95	Pour Point	-5 Deg. F	Flash Point	445 Deg. F	Viscosity		cSt at 40 Deg. C	100	cSt at 100 Deg. C	11.1	Rust ASTM D665:	Pass
ISO Viscosity	100																
Viscosity Index	95																
Pour Point	-5 Deg. F																
Flash Point	445 Deg. F																
Viscosity																	
cSt at 40 Deg. C	100																
cSt at 100 Deg. C	11.1																
Rust ASTM D665:	Pass																
Notes: Conforming Commercial Products: <p>Shell Tellus S2 M100 This is a special purpose lubricant. No other product will be considered for this application.</p>																	
Used on (PVSC Equipment):																	
Prepared by: JB Date: FEB 2007	Revisions: APRIL 2015 - Revised																
<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-21 Issue Date: MAR 2024 Sheet No.: 1 of 1																												
PVSC ENGINEERING STANDARD	TITLE Hydraulic Oil – Special Purpose																												
Purpose/Objective: Procurement Specification; Lubricant																													
Description: <div style="text-align: right;">PVSC Stock Number(s) – 55 Gal. Drum</div> <div style="text-align: right;">1800000010</div> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">ISO Viscosity</td> <td style="width: 25%; text-align: right;">46</td> <td style="width: 25%;"></td> </tr> <tr> <td>Viscosity Index</td> <td style="text-align: right;">104</td> <td></td> </tr> <tr> <td>Pour Point</td> <td style="text-align: right;">-16</td> <td style="text-align: right;">Deg. C</td> </tr> <tr> <td>Flash Point</td> <td style="text-align: right;">206</td> <td style="text-align: right;">Deg. C</td> </tr> <tr> <td colspan="3">Viscosity</td> </tr> <tr> <td style="padding-left: 20px;">cSt at 40 Deg. C</td> <td style="text-align: right;">46.7</td> <td></td> </tr> <tr> <td style="padding-left: 20px;">cSt at 100 Deg. C</td> <td style="text-align: right;">7.2</td> <td></td> </tr> <tr> <td>Rust ASTM D665:</td> <td style="text-align: right;">Pass</td> <td></td> </tr> <tr> <td>AGMA Grade:</td> <td style="text-align: right;">ISO 46</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>			ISO Viscosity	46		Viscosity Index	104		Pour Point	-16	Deg. C	Flash Point	206	Deg. C	Viscosity			cSt at 40 Deg. C	46.7		cSt at 100 Deg. C	7.2		Rust ASTM D665:	Pass		AGMA Grade:	ISO 46	
ISO Viscosity	46																												
Viscosity Index	104																												
Pour Point	-16	Deg. C																											
Flash Point	206	Deg. C																											
Viscosity																													
cSt at 40 Deg. C	46.7																												
cSt at 100 Deg. C	7.2																												
Rust ASTM D665:	Pass																												
AGMA Grade:	ISO 46																												
Notes: Conforming Commercial Products: <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>																													
Used on (PVSC Equipment): River Restoration Equipment																													
Prepared by: SMA Date: MAR 2024	Revisions:																												
<small>2010 PVSC Spec/lzf</small>																													

SPECIAL PURPOSE GREASES SPECIFICATIONS

PVSC SPEC NO.	DESCRIPTION	INDUSTRIAL / COMMERCIAL DESIGNATION
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

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

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">PASSAIC VALLEY SEWERAGE COMMISSION PLANT ENGINEERING DEPARTMENT 600 Wilson Avenue, Newark, NJ 07105</p>	<p align="right">Spec. No.: SPG-3 Issue Date: MARCH 1990 Sheet No.: 1 of 1</p>												
<p align="center">PVSC ENGINEERING STANDARD</p>	<p>TITLE NLGI – 2 EP Graphite Grease</p>												
<p>Purpose/Objective: Procurement Specification; Lubricant</p>													
<p>Description:</p> <p align="right">PVSC Stock Number(s) – 35 Lb. Container</p> <table border="0" style="width: 100%;"> <tr> <td>Calcium Soap, %</td> <td align="right">9.0</td> </tr> <tr> <td>Solid Additive (Graphite), %</td> <td align="right">12</td> </tr> <tr> <td>Penetration, ASTM at 25 Deg. C / 77 Deg. F, Worked</td> <td align="right">280</td> </tr> <tr> <td>Dropping Point, Deg. C / Deg. F</td> <td align="right">99 (210)</td> </tr> <tr> <td>Viscosity</td> <td></td> </tr> <tr> <td> cSt at 40 Deg. C</td> <td align="right">875</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>		Calcium Soap, %	9.0	Solid Additive (Graphite), %	12	Penetration, ASTM at 25 Deg. C / 77 Deg. F, Worked	280	Dropping Point, Deg. C / Deg. F	99 (210)	Viscosity		cSt at 40 Deg. C	875
Calcium Soap, %	9.0												
Solid Additive (Graphite), %	12												
Penetration, ASTM at 25 Deg. C / 77 Deg. F, Worked	280												
Dropping Point, Deg. C / Deg. F	99 (210)												
Viscosity													
cSt at 40 Deg. C	875												
<p>Notes: Conforming Commercial Products:</p> <p align="center">Chevron Texclad #2</p>													
<p>Used on (PVSC Equipment):</p> <p align="center">Overhead Door Equipment</p>													
<p align="center">Prepared by: KB/FG Date: March 1990</p>	<p>Revisions: EWD – Jan. 1997: Deleted Stock No. 0193060 Added 35 Lb. Container JAN 1999 – Added ISO 9000 requirement Jan 2003 – Revise Performance Requirements</p>												

11910.5 Lubricant Specification

<p>PASSAIC VALLEY SEWERAGE COMMISSIONERS PLANT ENGINEERING DEPARTMENT 600 Wilson Avenue, Newark, NJ 07105</p>	<p>Spec. No.: SPG-4 Issue Date: MARCH 1990 Sheet No.: 1 of 1</p>
<p>PVSC ENGINEERING STANDARD</p>	<p>TITLE NLGI – 000 EP Semi-Fluid EP Grease</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> <p>Color Medium Brown</p> <p>Structure Semifluid</p> <p>Soap Type Lithium 12 Hydroxystearate Unleaded</p> <p>Viscosity</p> <p> cSt at 40 Deg. C 325</p> <p> cSt at 100 Deg. C 25</p> <p>NLGI Consistency Grade NLGI 000</p> <p>Timken OK Load Lb., Min. 40</p> <p>4-Ball EP Test Weld Load, kg. Min. 160</p> <p>Wear Test, 40 kg. At 167 Deg. F, 1200 rpm, 1 hr. Scar Diameter, mm 0.7</p> <p>Bomb Copper Corrosion, psi Drop, 100 Hr. Max. 10</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>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: KB/FG Date: March 1990 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

Type of Base	Lithium or	Calcium
Worked Penetration at 77 Deg. F		240
ASTM Dropping Point Deg. F		370
Base Oil Viscosity		
cST at 100 Deg. C	200	+
NLGI	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:**

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">PASSAIC VALLEY SEWERAGE COMMISSION PLANT ENGINEERING DEPARTMENT 600 Wilson Avenue, Newark, NJ 07105</p>	<p align="right">Spec. No.: SPG-11 Issue Date: MARCH 1990 Sheet No.: 1 of 1</p>																														
<p align="center">PVSC ENGINEERING STANDARD</p>	<p>TITLE Moly Grease Lubriplate 3000</p>																														
<p>Purpose/Objective: Procurement Specification; Lubricant</p>																															
<p>Description:</p> <p align="right">PVSC Stock Number(s) – 35 Lb. Container - 0193065</p> <table border="0"> <tr> <td>Type of Base</td> <td>Lithium</td> </tr> <tr> <td>Worked Penetration Range</td> <td>265/295</td> </tr> <tr> <td>NLGI Number</td> <td>2 EP</td> </tr> <tr> <td>Worked Penetration Tests</td> <td></td> </tr> <tr> <td> 60 Strokes</td> <td>276</td> </tr> <tr> <td> 100,000 Strokes</td> <td>302</td> </tr> <tr> <td>ASTM Dropping Point</td> <td>400 Deg. F +, 205 Deg. C +</td> </tr> <tr> <td>Timken Test – Pounds on Lever Arm</td> <td>60 Lbs.</td> </tr> <tr> <td>Four Ball Test</td> <td></td> </tr> <tr> <td> OK Load</td> <td>630 Kg.</td> </tr> <tr> <td> Load Wear</td> <td>103.9 Kg.</td> </tr> <tr> <td>Mineral Oil Viscosity</td> <td></td> </tr> <tr> <td> SUS at 210 Deg. F</td> <td>90-95</td> </tr> <tr> <td> cSt at 40 Deg. C</td> <td>18-19</td> </tr> <tr> <td>Polymer</td> <td>Tenacious – Adhesive</td> </tr> </table> <p>Non-Corrosive Extreme Pressure; Water Resistant; Rust and Oxidation Inhibited; Shear Stable (Resists Breakdown); Contains Molybdenum Disulfide</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>		Type of Base	Lithium	Worked Penetration Range	265/295	NLGI Number	2 EP	Worked Penetration Tests		60 Strokes	276	100,000 Strokes	302	ASTM Dropping Point	400 Deg. F +, 205 Deg. C +	Timken Test – Pounds on Lever Arm	60 Lbs.	Four Ball Test		OK Load	630 Kg.	Load Wear	103.9 Kg.	Mineral Oil Viscosity		SUS at 210 Deg. F	90-95	cSt at 40 Deg. C	18-19	Polymer	Tenacious – Adhesive
Type of Base	Lithium																														
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SUS at 210 Deg. F	90-95																														
cSt at 40 Deg. C	18-19																														
Polymer	Tenacious – Adhesive																														
<p>Notes:</p> <p>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.</p>																															
<p>Used on (PVSC Equipment): Underwater Bearing; RAS Station; Yantacaw Pump Station; Grit & Screen Facility</p>																															
<p>Prepared by: KB/FG Date: March 1990</p>	<p>Revisions: July 1991 EWD – Jan 1997: Deleted Part No. 10839 120 Lb. Quarter Size Drum Added Stock No. 0193065 – 35 Lb. Container JAN 1999 – Added ISO 9000 requirement</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**

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

11910.5 Lubricant Specification	
PASSAIC VALLEY SEWERAGE COMMISSION PLANT ENGINEERING DEPARTMENT 600 Wilson Avenue, Newark, NJ 07105	Spec. No.: SPG-15 Issue Date: January 2003 Sheet No.: 1 of 1
PVSC ENGINEERING STANDARD	TITLE NLGI – 00 EP Semi-Fluid EP Grease
Purpose/Objective: Procurement Specification; Lubricant	
Description:	
	PVSC Stock Number(s) – 35 Lb. Container
Structure	Semifluid
Soap Type	Lithium 12 Hydroxystearate Unleaded
Viscosity	
cSt at 40 Deg. C	112
cSt at 100 Deg. C	9.8
NLGI Consistency Grade	NLGI 00 EP
Timken OK Load Lb., Min.	40
Flash Point	400° F
Pour Point	-11° F
Viscosity Insex	49
Dropping Point, Deg. F.	320
Penetration, worked 60 strokes	415
<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>	
Notes:	
(1) Conforming Commercial Products:	
Used on (PVSC Equipment):	
Prepared by: JB Date: January 2003 Approved by: Date:	Revisions:
<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.: SPG-16 Issue Date: January 2003 Sheet No.: 1 of 1
PVSC ENGINEERING STANDARD	TITLE NLGI-2-EP High Temperature EP Grease
Purpose/Objective: Procurement Specification; Lubricant	
Description:	
	PVSC Stock Number(s) – 35 Lb. Container 14 oz. Cartridge
Drop Point, Deg. F	>520
Penetration, dmm Worked 60 Strokes	280
Viscosity	
cSt at 40 Deg. C	126
cSt at 100 Deg. C	11.7
Viscosity Index	67
High Temp. Bearing Test, hrs (ASTM D-3336)	3,000
Thickener	Polyurea
NLGI	2-EP
Wheel Bearing Life Test, hrs, (ASTM D-3527)	276
Oil Separation, % loss (ASTM D-1742)	.3
Four – Ball Load Wear Index (ASTM D-	100
Four – Ball Load Weld, kg (ASTM D-2596)	500
Four-Ball Wear Protection Scar Diameter, MM (ASTMD-2596)	0.4
Rust Prevention (ASTM D-1743)	Pass
Water Washout, 175 Deg. F, %	2
Timken OK Load, Lbs. (ASTM D-2509)	60
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: Gulf Gulfgem EP Grease (Product Code 344101)	
Used on (PVSC Equipment):	
Prepared by: JB Date: January 2003	Revisions:
2010 PVSC Spec/lzf	

11910.5 Lubricant Specification		
PASSAIC VALLEY SEWERAGE COMMISSION PLANT ENGINEERING DEPARTMENT 600 Wilson Avenue, Newark, NJ 07105	Spec. No.: Issue Date: Sheet No.:	SPG-17 JAN 2003 1 of 1
PVSC ENGINEERING STANDARD	TITLE	Flexible Coupling Grease
Purpose/Objective: Procurement Specification; Lubricant		
Description:	PVSC Stock Number(s) –	14 oz. Cartridge 35 Lb. Pail
Ambient Temperature Range	20°F to 250°F	
Min. Base Oil Viscosity	45cST @ 100°F	
	800 cSt @ 40°C	
Thickener	Lithium 12 Hydrostearate	
NLGI Grade (ASTM D-217)	#1 EP	
Dropping Point	320°F	
Minimum Timken OK Load	50 Lbs.	
Rust Test (ASTM D1743)	Pass	
Bomb Oxidation, 100 hrs at 210°F	20	
Worked Penetration 60 Strokes	310-340	
 Manufacturers of Lubricants to this specification must be “Registered” to the ISO 9000 (or higher) standards at established by the International Organization for Standardization.		
Notes:		
Conforming Commercial Products:		
Mobil Mobilux EPIII (Product#64131-6)		
Used on (PVSC Equipment):		
Prepared by: Date:	JB JAN 2003	Revisions:
<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.: SPG-18 Issue Date: JAN 2003 Sheet No.: 1 of 1
PVSC ENGINEERING STANDARD	TITLE Wire Rope Grease
Purpose/Objective: Procurement Specification; Lubricant	
Description:	5 Gallon Container
	PVSC Stock Number(s) –
Min. Base Oil Viscosity	23cST @ 100°F
NLGI Grade (ASTM D-217)	#1
Minimum Dropping Point	145 Deg. F
Rust Test Protection ASTM D1748,hr	300
Salt Spray, ATSM B117,hr	55
Specific Gravity	.884
 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: Mobilarma 798 (Product # 66721-2)	
Used on (PVSC Equipment):	
Prepared by: JB Date: JAN 2003	Revisions:
2010 PVSC Spec/lzf	

11910.5 Lubricant Specification	
PASSAIC VALLEY SEWERAGE COMMISSION PLANT ENGINEERING DEPARTMENT 600 Wilson Avenue, Newark, NJ 07105	Spec. No.: SPG-19 Issue Date: Jan 2003 Sheet No.: 1 of 1
PVSC ENGINEERING STANDARD	TITLE NLGI – 2 GC LB Corrosion Control Grease
Purpose/Objective: Procurement Specification; Lubricant	
Description:	
	PVSC Stock Number(s) – 14 oz. Cartridge 3 oz. Cartridge – 2 per pack
Dropping Point	550°F
Soap Type	Calcium Sulfonate Complex
Viscosity	
cSt at 40 Deg. C	219
cSt at 100 Deg. C	18.7
NLGI Consistency Grade	NLGI 2 GC-LB
Timken OK Load Lb., Min.	55
4-Ball EP Test Weld Load, kg. Min.	500
Wear Test, 40 kg. At 167 Deg. F, 1200 rpm,	.45
1 hr. Scar Diameter, mm	
<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>	
Notes:	
Conforming Commercial Products: Lubrimatic Marine Trailer Bearing Grease	
Used on (PVSC Equipment):	
Prepared by: JB Date: Jan 2003 Approved by: Date:	Revisions:
<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.: SPG-20 Issue Date: JAN 2003 Sheet No.: 1 of 1
PVSC ENGINEERING STANDARD		TITLE Aluminum 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	170	
cSt at 100°C	15.5 – 22	
NGLI	OEP	
Rust Protection ASTM D2266	Pass	
Thickener	Aluminum Complex Molyube	
Lubricating Solids		
Water Washout ASTM D1264 Loss Weight%	5.4	
Dropping Point, °F	>446	
Penetration, worked (60 Strokes)	370	
Four-Ball Weld Load ASTM D 2596, kg	620	
Four-Ball Load Wear Index, ASTM D 2596, kg	77	
Four-Ball Wear Test Scar Diameter ASTM D2266, mm	0.49	
<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>		
Notes: Conforming Commercial Products: Bel-Ray Molyube 126EP Grease (Product#2320)		
Prepared by: JB Date: Jan. 2003		Revisions:
<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.: SPG-21 Issue Date: JAN 2003 Sheet No.: 1 of 1
PVSC ENGINEERING STANDARD		TITLE Aluminum Soap Base Moly Grease EP-1
Purpose/Objective: Procurement Specification; Lubricant		
Description:		
	PVSC Stock Number(s)	120 Lb. Container
Viscosity:		
cSt at 40°C	170	
cSt at 100°C	15.5	
NGLI	1EP	
Rust Protection ASTM D2266	Pass	
Thickener	Aluminum	
	Complex	
Lubricating Solids	Molyube	
Water washout ASTM D1264 Loss Weight%	4.4	
Dropping Point, °F	>500	
Penetration, Worked (60 Strokes)	325	
Four-Ball Weld Load ASTM D 2596 kg	620	
Four-Ball Load Wear Index, ASTM D 2596 kg	77	
Four-Ball Wear Test Scar Diameter ASTM D2266, mm	0.48	
<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>		
Notes:		
Conforming Commercial Products: Bel-Ray Molyube 126EP Grease (Product#2322)		
Prepared by: JB Date: Jan. 2003		Revisions:
<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.: SPG-22 Issue Date: FEB 2007 Sheet No.: 1 of 1
PVSC ENGINEERING STANDARD		TITLE Automatic Lubricator NGLI-O Grease
Purpose/Objective: Procurement Specification; Lubricant		
Description:		
	PVSC Stock Number(s)	Box of 20 Canisters
Canister Housing	Metal 120 CC	
NGLI	O	
Thickener	Aluminum Complex	
<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>		
Notes: Conforming Commercial Products: 1) Perma Classic lubricators with 3 month green activator filled with SFO-6 grease. 2) No substitute will be accepted as this is a special purpose product.		
Prepared by: JB Date: FEB 2007		Revisions:
2010 PVSC Spec/lzf		

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

LUBRICATING OILS, SYNTHETIC SPECIFICATIONS

PVSC SPEC NO.	DESCRIPTION	INDUSTRIAL / COMMERCIAL DESIGNATION
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.

11910.5 Lubricant Specification		
PASSAIC VALLEY SEWERAGE COMMISSION PLANT ENGINEERING DEPARTMENT 600 Wilson Avenue, Newark, NJ 07105		Spec. No.: SY-1-HF Issue Date: MARCH 1990 Sheet No.: 1 of 1
PVSC ENGINEERING STANDARD		TITLE Hydrocarbon Free Oil
Purpose/Objective: Procurement Specification; Lubricant		
Description:		
	PVSC Stock Number(s) –	16 Oz. Container
Pour Point, Deg. F	-200	
Cloud Point, Deg. F	< -200	
<u>Viscosity:</u>		
Centistokes @ -65 Deg. F	5.7	
Centipoises	10.0	
Centistokes @ 100 Deg. F	0.80	
Centipoises	1.3	
Centistokes @ 210 Deg. F		
Centipoises		
<u>Density:</u>		
100 Deg. F	1.71	
160 Deg. F	1.65	
210 Deg. F	1.60	
Rust Inhibitor	Yes	
ISO 9000 Registration is waived for the Manufacturer of this product.		
Notes:		
(1) Conforming Commercial Product: Halocarbon Oil 0.8		
(2) NO SUBSTITUTE WILL BE ACCEPTED		
Used on (PVSC Equipment):		
Prepared by: KB/FG Date: MARCH 1990		Revisions: JAN 1999: Note (2) added – Alternative product note removed. ISO 9000 waiver added Jan 2003- Revised Performance Requirements
<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.: SY-2-32 Issue Date: MARCH 1990 Sheet No.: 1 of 1	
PVSC ENGINEERING STANDARD		TITLE ISO-32 Synthetic Hydrocarbon	
Purpose/Objective: Procurement Specification; Lubricant			
Description: <p style="text-align: right;">PVSC Stock Number(s) – 55 Gal. Drum</p>			
Gravity, API		35.0-36.0	
Specific Gravity, 60/60 Deg. F (15.6/15.6 Deg. C)		.849	
Pour Point, Deg. F		-85 Deg. F-	
		-65 Deg. F	
Flash Point, Deg. F		464 Deg. F –	
		484 Deg F	
Viscosity			
cSt at 40 Deg. C		30.4 - 32.4	
cSt at 100 Deg. C		5.8-6.3	
Viscosity Index		138-159	
FZG Rating		10	
ISO Viscosity Grade		32	
Copper Corrosion, ASTM D-130		1B Max	
<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>			
Notes: Conforming Commercial Products: Mobil M-Shc624			
Used on (PVSC Equipment):			
Prepared by: KB/FG Date: MARCH 1990		Revisions: 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 MAR 2024 – Removed stock code #	

11910.5 Lubricant Specification	
PASSAIC VALLEY SEWERAGE COMMISSION PLANT ENGINEERING DEPARTMENT 600 Wilson Avenue, Newark, NJ 07105	Spec. No.: SY-3-150 Issue Date: MARCH 1990 Sheet No.: 1 of 1
PVSC ENGINEERING STANDARD	TITLE ISO-150 Synthetic Hydrocarbon
Purpose/Objective: Procurement Specification; Lubricant	
Description:	
	PVSC Stock Number(s) – 0193035 – 55 Gal. Drum 0193081 – 5 Gal. Container
Gravity, API	32.4 – 33.1
Specific Gravity, 60/60 Deg. F (15.6/15.6 Deg. C)	.869
Pour Point, Deg. F	-49Deg. F - -47 Deg. F
Flash Point, Deg. F	482 Deg. F – 518 Deg. F
Viscosity Index	
cSt at 40 Deg. C	142 – 143
cSt at 100 Deg. C	18.3 – 18.6
Viscosity Index	144 – 147
ISO Viscosity Grade	150
Copper Corrosion, ASTM D-130	1B Max
 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 M-Shc629 – Group 4 V1 166	
Used on (PVSC Equipment):	
Prepared by: KB/FG Date: MARCH 1990	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
2010 PVSC Spec/lzf	

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

11910.5 Lubricant Specification	
PASSAIC VALLEY SEWERAGE COMMISSION PLANT ENGINEERING DEPARTMENT 600 Wilson Avenue, Newark, NJ 07105	Spec. No.: SY-5-460 Issue Date: MARCH 1990 Sheet No.: 1 of 1
PVSC ENGINEERING STANDARD	TITLE ISO-460 Synthetic Hydrocarbon
Purpose/Objective: Procurement Specification; Lubricant	
Description:	
	PVSC Stock Number(s) – 0193037 – 55 Gal. Drum
Gravity, API	31.4-31.7
Specific Gravity, 60/60 Deg. F (15.6/15.6 Deg. C)	.867
Pour Point, Deg. F	-44 Deg F - -20 Deg F
Flash Point, Deg. F	482 Deg F - 518 Deg F
Viscosity	
cSt at 40 Deg. C	436-437
cSt at 100 Deg. C	44.9 – 45.1
Viscosity Index	174
FZG Rating	13
ISO Viscosity Grade	460
Copper Corrosion, ASTM D-130	1B Max
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 Product: Mobil M-SHC 634	
Used on (PVSC Equipment):	
Prepared by: KB/FG Date: MARCH 1990	Revisions: 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
2010 PVSC Spec/lzf	

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>PVSC ENGINEERING STANDARD</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;">10⁻⁷ to 10⁻⁸</td> </tr> <tr> <td style="padding-left: 100px;">trapped</td> <td style="text-align: right;">to 10⁻¹¹</td> </tr> <tr> <td>Extrapolated Vapor Pressure, torr, (25 Deg. C) 77 Deg. F</td> <td style="text-align: right;">2 X 10⁻⁸</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 ⁻⁷ to 10 ⁻⁸	trapped	to 10 ⁻¹¹	Extrapolated Vapor Pressure, torr, (25 Deg. C) 77 Deg. F	2 X 10 ⁻⁸	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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Molecular Weight	484																														
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Log P = A – B/T (P – vapor pressure torr,	A = 11025																														
T – absolute temperature degrees K)	B = 5570																														
<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	
PASSAIC VALLEY SEWERAGE COMMISSION PLANT ENGINEERING DEPARTMENT 600 Wilson Avenue, Newark, NJ 07105	Spec. No.: SY-11 Issue Date: MARCH 1990 Sheet No.: 1 of 1
PVSC ENGINEERING STANDARD	TITLE (BEL RAY SE2) Synthetic Lubricant
Purpose/Objective: Procurement Specification; Lubricant	
Description:	
	PVSC Stock Number(s) 0193043 400 Lbs.
Specific Gravity 60 Deg./60 Deg. F	0.925
Color	Pale Yellow-Green
Viscosity	
cSt at 40 Deg. C	40
cst at 100 Deg. C	6
Viscosity Index Min.	183
Flash Point Deg. F	392
Fire Point Deg. F	410
Pour Point Deg. F	-75
Timken EP Value	
OK Min. Load Lbs.	80
Max. Wear Scar @ 80 Lbs. mm	1.15
Falex Load, lbs. min. 3000 Lbs. Gage	2,500
Corrosion Test ASTM 665A	Pass
Corrosion Test ASTM 665B	Pass
Elastomer Swell Tendency	Nil
Manufacturers of Lubricants to this specification must be "REGISTERED" to the ISO 9000 (or higher) standards established by the International Organization for Standardization.	
Notes:	
Conforming Commercial Products: Bel-Ray SE2 Grade 50	
Used on (PVSC Equipment):	
Prepared by: KB/FG Date: MARCH 1990	Revisions: MARCH 1990 EWD – Jan. 1997 – Added 400 Lbs. JAN 1999 – ISO 9000 waiver added Jan 2003 – Added ISO 9000 Requirement and Revised Performance Requirements
<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.: SY-12 Issue Date: MARCH 1990 Sheet No.: 1 of 1
PVSC ENGINEERING STANDARD	TITLE Synthetic Diester Lubricant
Purpose/Objective: Procurement Specification; Lubricant	
Description:	
	PVSC Stock Number(s) 0193045 55 Gal.
ISO Viscosity Grade	100
Viscosity @ 40 Deg. C cSt	95-110
Viscosity @ 100 Deg. C cSt	9.4-11.5
Viscosity Index	78-94
Pour Point Deg. C (Deg. F)	-30 to -36 (-22) to (-32.8)
Flash Point Deg. C (Deg. F)	230 – 270 (446 – 518)
Autoignition Temperature Deg. F	>750
Conradson Carbon Residue, %	<0.02
Evaporation	-1%
Demulsibility @ 54 Deg. C (130 Deg. F) MI oil/water/emulsion (minutes)	39 / 38 / 3 (60)
Foaming Tendency Sequence I, II, III	Nil
Copper Strip Corrosion, 3 Hrs. @ 100 Deg. C (212 Deg. F)	1A
Specific Gravity 25 Deg. C (77 Deg. F)	0.93 – 0.95
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 Products: Anderol 500 Chemlube 501 Summit DSL-100	
(2) NO SUBSTITUTE WILL BE ACCEPTED	
Used on (PVSC Equipment): Process Air Compressors (PAC)	
Prepared by: KB/FG Date: MARCH 1990	Revisions: 07/16/93: Conforming Commercial Products EWD – Jan. 1997: Changed 400 Lbs. to 55 Gal. and Added Process Air Compressors (PAC) JAN 1999: Note (2) added; ISO 9000 waiver added Jan 2003 – Added ISO 9000 Requirement and Revised Performance Requirement Nov 2018 – Added Summit DSL-100 and Revised
<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-15-320 Issue Date: Sheet No.: 1 of 1</p>
<p>PVSC ENGINEERING STANDARD</p>	<p>TITLE</p>
<p>Purpose/Objective: Procurement Specification; Lubricant</p>	
<p>Description:</p> <p style="text-align: center;">PVSC Stock Number(s)</p>	
<p>Notes: Conforming Commercial Products:</p>	
<p>Used on (PVSC Equipment):</p>	
<p>Prepared by: Date:</p> <p>Approved by: Date:</p>	<p>Revisions:</p>

11910.5 Lubricant Specification		
PASSAIC VALLEY SEWERAGE COMMISSION PLANT ENGINEERING DEPARTMENT 600 Wilson Avenue, Newark, NJ 07105	Spec. No.:	SY-17-320
	Issue Date:	MARCH 1990
	Sheet No.:	1 of 1
PVSC ENGINEERING STANDARD	TITLE	ISO - 320 Synthetic Hydrocarbon
Purpose/Objective: Procurement Specification; Lubricant		
Description:	PVSC Stock Number(s)	55 Gal. Drum
Gravity, API	31.7-32.1	
Specific Gravity, 60/60 Deg. F (15.6/15.6 Deg. C)	.867	
Pour Point, Deg. F	-44 Deg. F - -35 Deg. F	
Flash Point, Deg. F	482 Deg F - 518 Deg F	
Viscosity		
cSt at 40 Deg. C	304-326	
cSt at 100 Deg. C	33.2-38.6	
Viscosity Index	172	
FZG Rating	13	
ISO Viscosity Grade	320	
Copper Corrosion, ASTM D130 24 h at 212 Deg. F (100 Deg. C)	1B Max	
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 M-SHC 632		
Used on (PVSC Equipment):		
Oxygenation Tanks, Gear Reducers		
Prepared by:	KB/FG	Revisions:
Date:	MARCH 1990	JAN 1999:
		Deleted oil analysis note; 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.: SY-18 Issue Date: MARCH 1990 Sheet No.: 1 of 1
PVSC ENGINEERING STANDARD		TITLE Synthetic Oil Additive
Purpose/Objective: Procurement Specification; Lubricant		
Description:		
	PVSC Stock Number(s)	Case – 4 One Gal. Cans
Specific Gravity	0.8178	
Flash Point, Deg. F, Min.	100	
Flash Point, Deg. F, Min. of Fluid Remaining after solvent portion has evaporated	400	
Fire Point, Deg. F, Min. of Fluid Remaining after solvent portion has evaporated	425	
Pour Point, Deg. F, Min. of Fluid Remaining after solvent portion has evaporated	0	
Film Strength Falex Load Lbs., Min.	1,500	
Timken OK Load of Fluid Remaining after solvent portion has evaporated	25	
Rust-Preventive Characteristics in accordance with ASTM D-665-50T	Pass	
<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>		
Notes: Conforming Commercial Products: <p style="text-align: center;">Bel-Ray 6 in 1 Fluid, Manufactured by Bel-Ray Company</p> <p style="text-align: center;"><u>CONSULT PLANT ENGINEERING DEPARTMENT PRIOR TO USE.</u></p>		
Used on (PVSC Equipment): Use as an additive to Bel-Ray SE2 Synthetic Lubricating Oil for flushing purposes.		
Prepared by: KB/FG Date: MARCH 1990	Revisions: JAN 1999 – ISO 9000 waiver added Jan 2003 – Added ISO 9000 Requirement	
<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>PVSC ENGINEERING STANDARD</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 border="0" style="width: 100%;"> <tr> <td>cSt at 100°C (212°F)</td> <td style="text-align: right;">7.3</td> </tr> <tr> <td>cSt at 98.9°C (210°F)</td> <td style="text-align: right;">7.4</td> </tr> <tr> <td>cSt at 40°C (104°F)</td> <td style="text-align: right;">37.0</td> </tr> <tr> <td>cSt at 0°C (32°F)</td> <td style="text-align: right;">330.0</td> </tr> <tr> <td>cSt at -17.8°C (0°F)</td> <td style="text-align: right;">1500.0</td> </tr> <tr> <td colspan="2"> </td> </tr> <tr> <td>SSU at 98.9°C (210°F)</td> <td style="text-align: right;">50.4</td> </tr> <tr> <td>SSU at 37.8°C (100°F)</td> <td style="text-align: right;">189.0</td> </tr> <tr> <td colspan="2"> </td> </tr> <tr> <td>Viscosity Index</td> <td style="text-align: right;">163</td> </tr> <tr> <td>SAE</td> <td style="text-align: right;">5W – 20</td> </tr> <tr> <td>Flash Point °F</td> <td style="text-align: right;">505</td> </tr> <tr> <td>Specific Gravity at 24°C (77°F)</td> <td style="text-align: right;">0.9813</td> </tr> <tr> <td>Rotary Bomb Oxidation Test (Hrs.)</td> <td style="text-align: right;">18.0</td> </tr> <tr> <td>Color:</td> <td style="text-align: right;">Green Clear Fluid</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>		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			Viscosity Index	163	SAE	5W – 20	Flash Point °F	505	Specific Gravity at 24°C (77°F)	0.9813	Rotary Bomb Oxidation Test (Hrs.)	18.0	Color:	Green Clear Fluid
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SAE	5W – 20																														
Flash Point °F	505																														
Specific Gravity at 24°C (77°F)	0.9813																														
Rotary Bomb Oxidation Test (Hrs.)	18.0																														
Color:	Green Clear Fluid																														
<p>Notes:</p> <p>Conforming Commercial Products:</p> <p style="text-align: center;">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>PASSAIC VALLEY SEWERAGE COMMISSIONERS PLANT ENGINEERING DEPARTMENT 600 Wilson Avenue, Newark, NJ 07105</p>	<p>Spec. No.: <u>SY-20</u> Issue Date: _____ Sheet No.: <u>1 of 1</u></p>
<p>PVSC ENGINEERING STANDARD</p>	<p>TITLE</p>
<p>Purpose/Objective: Procurement Specification; Lubricant</p>	
<p>Description:</p> <p style="text-align: center;">PVSC Stock Number(s)</p>	
<p>Notes:</p> <p>Conforming Commercial Products:</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>Used on (PVSC Equipment):</p>	
<p>Prepared by: Date:</p>	<p>Revisions:</p>

11910.5 Lubricant Specification		
PASSAIC VALLEY SEWERAGE COMMISSION PLANT ENGINEERING DEPARTMENT 600 Wilson Avenue, Newark, NJ 07105	Spec. No.: Issue Date: Sheet No.:	SY-21-320 JAN. 1999 1 of 1
PVSC ENGINEERING STANDARD	TITLE	ISO - 320 Synthetic Heavy-Duty Gear Lubricant
Purpose/Objective: Procurement Specification; Lubricant		
Description:		
	PVSC Stock Number(s)	55 Gal. Drum
AGMA	6EP	
Gravity, API	30.1	
Timken OK Load, Lb, Min, ASTM D2782	60	
Pour Point, Deg. F (Deg. C), Max.	-30 (-34)	
Flash Point, Deg. F (Deg. C), Min.	450 (232)	
Viscosity		
cSt at 40 Deg. C	305	
cSt at 100 Deg. C	34.6	
Viscosity Index	155	
Color, ASTM	0.5	
ISO Viscosity Grade	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:		
Conforming Commercial Products:		
(1) Mobil SHC GEAR 320		
(2) NO SUBSTITUTE WILL BE ACCEPTED		
Used on (PVSC Equipment):		
Oxygenation Tanks, Gear Reducers (Lightnin)		
Prepared by:	FG/JR	Revisions:
Date:	JAN 1999	JAN 1999 – Added ISO 9000 requirement
		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.: SY-22 Issue Date: JAN 2003 Sheet No.: 1 of 1
PVSC ENGINEERING STANDARD		TITLE ISO – 68 Synthetic Hydraulic Oil
Purpose/Objective: Procurement Specification; Lubricant		
Description:		
	PVSC Stock Number(s)	55 Gal. Drum
Rust Protection ASTM D665	Pass	
Specific Gravity, 60/60 Deg. F (15.6/15.6 Deg.C)	.852	
Pour Point, Deg. F (Deg. C), Max.	-55 (-48)	
Flash Point, Deg. F (Deg. C), Min.	400 (204)	
Viscosity		
cSt at 40 Deg. C	68	
cSt at 100 Deg. C	11.5	
Viscosity Index	145	
Color, ASTM	1.0	
ISO Viscosity Grade	68	
<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>		
Notes: Conforming Commercial Products: Mobil SHC 526 (Product#603068)		
Used on (PVSC Equipment):		
Prepared by: JB Date: JAN 2003		Revisions:
<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.: SY-23 Issue Date: JAN. 2003 Sheet No.: 1 of 1
PVSC ENGINEERING STANDARD		TITLE ISO – 460 Synthetic Heavy-Duty Gear Lubricant
Purpose/Objective: Procurement Specification; Lubricant		
Description:		
	PVSC Stock Number(s)	55 Gal. Drum
AGMA#	7 EP	
Gravity, API	28.6	
Timken OK Load, Lb, Min, ASTM D2782	60	
Pour Point, Deg. F (Deg. C), Max.	-20 (-29)	
Flash Point, Deg. F (Deg. C), Min.	450 (232)	
Viscosity		
cSt at 40 Deg. C	440	
cSt at 100 Deg. C	45.4	
Viscosity Index	155	
Color, ASTM	0.5	
ISO Viscosity Grade	460	
<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>		
Notes: Conforming Commercial Products: Mobil SHC GEAR 460		
Used on (PVSC Equipment):		
Prepared by: JB Date: JAN 2003		Revisions: APRIL 2015 - Revised

11910.5 Lubricant Specification		
PASSAIC VALLEY SEWERAGE COMMISSION PLANT ENGINEERING DEPARTMENT 600 Wilson Avenue, Newark, NJ 07105		Spec. No.: SY-24 Issue Date: JAN. 2003 Sheet No.: 1 of 1
PVSC ENGINEERING STANDARD		TITLE ISO – 220 Synthetic Heavy-Duty Gear Lubricant
Purpose/Objective: Procurement Specification; Lubricant		
Description:		
	PVSC Stock Number(s)	55 Gal. Drum
AGMA	5 EP	
Gravity, API	28.2	
Timken OK Load, Lb, Min, ASTM D2782	60	
Pour Point, Deg. F (Deg. C), Max.	-35 (-37)	
Flash Point, Deg. F (Deg. C), Min.	428 (220)	
Viscosity		
cSt at 40 Deg. C	210	
cSt at 100 Deg. C	25	
Viscosity Index	152	
Color, ASTM	0.5	
ISO Viscosity Grade	220	
<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>		
Notes: Conforming Commercial Products: (1) Mobil SHC GEAR 220 (2) NO SUBSTITUTES WILL BE ACCEPTED		
Used on (PVSC Equipment):		
Prepared by: JB Date: JAN 2003		Revisions: APRIL 2015 - Revised
<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.: SY-25 Issue Date: JAN. 2003 Sheet No.: 1 of 1
PVSC ENGINEERING STANDARD		TITLE ISO – 68 Synthetic Heavy-Duty Gear Lubricant
Purpose/Objective: Procurement Specification; Lubricant		
Description:		
	PVSC Stock Number(s)	55 Gal. Drum
	1200000065	5 Gal. Size
Gravity, API	33.6	
Specific Gravity, 60/60 Deg. F (15.6/15.6 Deg. C)	.858	
Pour Point, Deg. F (Deg. C), Max.	-54 (-48)	
Flash Point, Deg. F (Deg. C), Min.	447 (231)	
Viscosity		
cSt at 40 Deg. C	66	
cSt at 100 Deg. C	10.3	
Viscosity Index	144	
FZG Rating	11	
ISO Viscosity Grade	68	
Copper Corrosion, ASTM D-130	1B Max	
<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>		
Notes: Conforming Commercial Products: (1) Mobil SHC GEAR 626		
Used on (PVSC Equipment):		
Prepared by: JB Date: JAN 2003		Revisions: APRIL 2015 – Revised MAR 2024 – added 5 Gal. size and stock code
<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.: SY-26 Issue Date: FEB 2007 Sheet No.: 1 of 1
PVSC ENGINEERING STANDARD		TITLE ISO – 100 Synthetic Heavy-Duty Gear Lubricant
Purpose/Objective: Procurement Specification; Lubricant		
Description:		
		PVSC Stock Number(s) 55 Gal. Drum – 5 Gal. Pail
Specific Gravity, 60/60 Deg. F (15.6/15.6 Deg. C)		.86
Pour Point, Deg. F (Deg. C), Max.		-43.6
Flash Point, Deg. F (Deg. C), Min.		478.4
Viscosity		
cSt at 40 Deg. C		99.1
cSt at 100 Deg. C		13.9
Viscosity Index		143
FZG Rating		13
ISO Viscosity Grade		100
Copper Corrosion, ASTM D-130		1B Max
<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>		
Notes: Conforming Commercial Products: (1) Mobil SHC GEAR 100		
Used on (PVSC Equipment):		
Prepared by: JB Date: FEB 2007		Revisions: APRIL 2015 - Revised
<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>PVSC ENGINEERING STANDARD</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																													
PASSAIC VALLEY SEWERAGE COMMISSION PLANT ENGINEERING DEPARTMENT 600 Wilson Avenue, Newark, NJ 07105	Spec. No.: SY-28 Issue Date: FEB 2007 Sheet No.: 1 of 1																												
PVSC ENGINEERING STANDARD	TITLE ISO – 68 Synthetic Heavy-Duty Gear Lubricant																												
Purpose/Objective: Procurement Specification; Lubricant																													
Description: <table border="0" style="width: 100%; margin-left: 200px;"> <tr> <td></td> <td style="text-align: center;">PVSC Stock Number(s)</td> <td style="text-align: center;">55 Gal. Drum – 5 Gallon</td> </tr> <tr> <td>Pour Point, Deg. F (Deg. C), Max.</td> <td style="text-align: center;">-65</td> <td></td> </tr> <tr> <td>Flash Point, Deg. F (Deg. C), Min.</td> <td style="text-align: center;">495</td> <td></td> </tr> <tr> <td colspan="3"> </td> </tr> <tr> <td colspan="3">Viscosity</td> </tr> <tr> <td style="padding-left: 20px;">cSt at 40 Deg. C</td> <td style="text-align: center;">68.0</td> <td></td> </tr> <tr> <td style="padding-left: 20px;">cSt at 100 Deg. C</td> <td style="text-align: center;">10.1</td> <td></td> </tr> <tr> <td>Viscosity Index</td> <td style="text-align: center;">133</td> <td></td> </tr> <tr> <td>ISO Viscosity Grade</td> <td style="text-align: center;">68</td> <td></td> </tr> </table>				PVSC Stock Number(s)	55 Gal. Drum – 5 Gallon	Pour Point, Deg. F (Deg. C), Max.	-65		Flash Point, Deg. F (Deg. C), Min.	495		 			Viscosity			cSt at 40 Deg. C	68.0		cSt at 100 Deg. C	10.1		Viscosity Index	133		ISO Viscosity Grade	68	
	PVSC Stock Number(s)	55 Gal. Drum – 5 Gallon																											
Pour Point, Deg. F (Deg. C), Max.	-65																												
Flash Point, Deg. F (Deg. C), Min.	495																												
Viscosity																													
cSt at 40 Deg. C	68.0																												
cSt at 100 Deg. C	10.1																												
Viscosity Index	133																												
ISO Viscosity Grade	68																												
Notes: Conforming Commercial Products: (1) Royal Purple Synfilm GT68. (2) This is a special purpose lubricant no other product will be considered.																													
Used on (PVSC Equipment):																													
Prepared by: JB Date: FEB 2007	Revisions: APRIL 2015 - Revised																												

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

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

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:

11910.5 Lubricant Specification	
PASSAIC VALLEY SEWERAGE COMMISSION PLANT ENGINEERING DEPARTMENT 600 Wilson Avenue, Newark, NJ 07105	Spec. No.: SY-30-220 Issue Date: MAR. 2024 Sheet No.: 1 of 1
PVSC ENGINEERING STANDARD	TITLE ISO – 220 Synthetic Oil
Purpose/Objective: Procurement Specification; Lubricant	
Description:	
	PVSC Stock Number(s) 2200000027 5 Gal. Pail
AGMA	9005-E02
Specific Gravity, API	0.87
Evaporation Loss, %	<1
Pour Point, Deg. C, Max.	-35
Flash Point, Deg. C, Min.	262
Viscosity	
cSt at 40 Deg. C	230.4
cSt at 100 Deg. C	24.14
Viscosity Index	131
Copper Corrosion, ASTM D-130	1B
ISO Viscosity Grade	220
<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>	
Notes: Conforming Commercial Products: (1) Chemlube 630 (2) NO SUBSTITUTES WILL BE ACCEPTED	
Used on (PVSC Equipment): EZ Strip pumps at Finals Gallery	
Prepared by: SMA Date: MAR 2024	Revisions:
<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.: SY-31 Issue Date: FEB 2025 Sheet No.: 1 of 1
PVSC ENGINEERING STANDARD	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. NO SUBSTITUTIONS ACCEPTED	
Used on (PVSC Equipment): Vehicles	
Prepared by: SA Date: February 2025	Revisions:
2010 PVSC Spec/lzf	

SYNTHETIC GREASE SPECIFICATIONS

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

11910.5 Lubricant Specification	
PASSAIC VALLEY SEWERAGE COMMISSION PLANT ENGINEERING DEPARTMENT 600 Wilson Avenue, Newark, NJ 07105	Spec. No.: SYGR-1 Issue Date: MARCH 2011 Sheet No.: 1 of 1
PVSC ENGINEERING STANDARD	TITLE Silicone Oil Lithium Soap Grease
Purpose/Objective: Procurement Specification; Lubricant	
Description:	
	PVSC Stock Number(s) 0193071 – 14 Oz. Container 8lb. Can
Color	Pink / Gray
Thickener	Lithium Soap
Penetration, worked 60 strokes	280
Bleed, After 24 Hrs. at 300°F (149°C), %	1.0
Evaporation, After 24 Hrs. at 300°F (149°C), %	2.8
Dropping Point, Degrees	439°F (226°C)
Dirt Count	Pass
Temperature Range, Degrees	-100°F to 400°F (-73°C to 204°C)
Specific Gravity at 77°F (25°C)	0.97
Bomb Oxid., Pressure Drop after 500 Hrs. at 210°F (99°C), psi	2.0
Water Washout Resistance Loss, %	0.5
Thermal Conductivity	
Cal./sec./cm/Deg. C/cm	0.00028
BTU/hr./ft./Deg. F/in.	8.13
Specific Heat	
Cal./gm/Deg. C	0.379
BTU/lb./Deg. F	0.379
High Temperature Bearing Performance, Hrs. at 10,000 rpms, 6 Lb. Radial Load, 204 Bearing at 400°F (204°C), Weibull B	320
Max. DN Value (Bore size in mm x rpm)	200,000
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:	
Dow Corning 33 Extreme Low Temperature Bearing Grease, Medium	
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
2010 PVSC Spec/lzf	

11910.5 Lubricant Specification	
PASSAIC VALLEY SEWERAGE COMMISSION PLANT ENGINEERING DEPARTMENT 600 Wilson Avenue, Newark, NJ 07105	Spec. No.: SYGR-2 Issue Date: MARCH 1990 Sheet No.: 1 of 1
PVSC ENGINEERING STANDARD	TITLE Silicone Oil Lithium Soap Grease
Purpose/Objective: Procurement Specification; Lubricant	
Description:	
	PVSC Stock Number(s) 0193072 - 14 Oz. Container
Color	Brown/Amber
Thickener	Lithium Soap
Penetration, worked 60 strokes	280
Bleed, After 24 Hrs. at 300°F (149°C), %	2.0
Evaporation, After 24 Hrs. at 300°F (149°C), %	2.0
Dropping Point, Degrees	432°F (220°C)
Dirt Count	Pass
Temperature Range, Degrees	-40°F to 400°F (40°C to 204°C)
Specific Gravity at 77°F (25°C)	1.05
Bomb Oxid., Pressure Drop after 500 Hrs. at 210°F (99°C), psi	2.0
Water Washout Resistance Loss, %	0.5
Thermal Conductivity	
Cal./sec./cm/Deg. C/cm	0.00028
BTU/hr./ft./Deg. F/in.	8.13
Specific Heat	
Cal./gm/Deg. C	0.368
BTU/lb./Deg. F	0.368
High Temperature Bearing Performance, Hrs. at 10,000 rpm,	800
6 Lb. Radial Load, 204 Bearing at 400°F (204°C),	
Weibull B	
Max. DN Value (Bore size in mm x rpm)	300,000
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:	
Dow Corning 44 High Temperature Bearing Grease, Medium	
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
2010 PVSC Spec/lzf	

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

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

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

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

11910.5 Lubricant Specification

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

**Spec. No.: SYGR-9
Issue Date: MARCH 1990
Sheet No.: 1 of 1**

**PVSC ENGINEERING
STANDARD**

TITLE Hydrocarbon-Free Grease

Purpose/Objective: Procurement Specification; Lubricant

Description:

PVSC Stock Number(s) 0193087 - One Lb. Container

PCTFE/PCTFE Polymer Thickened Grease

Penetration (+/- 10%) (0.1 mm Units)		Service Temperature Range	Minimum Drop Melting Point	Maximum Vapor Pressure at 140°F (60°C)
Unworked	Worked	°F (°C)	°F (°C)	(mm Hg)
310	340	30 to 275 (-1 to 134)	300 (149)	1 X 10

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

Notes:

- (1) Conforming Commercial Products: Halocarbon #25-10M**
- (2) NO SUBSTITUTE WILL BE ACCEPTED**

Used on (PVSC Equipment):

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

**Revisions:
EWD – Jan. 1997: Added One Lb. Container
JAN 1999:
Note (2) added
Alternate product approval note deleted
ISO 9000 waiver added
Jan 2003 – Revise Performance Requirements**

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

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

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

11910.5 Lubricant Specification																		
PASSAIC VALLEY SEWERAGE COMMISSION PLANT ENGINEERING DEPARTMENT 600 Wilson Avenue, Newark, NJ 07105		Spec. No.: SYGR-13 Issue Date: Jan. 2003 Sheet No.: 1 of 1																
PVSC ENGINEERING STANDARD		TITLE High Temperature Synthetic Grease																
Purpose/Objective: Procurement Specification; Lubricant																		
Description: <p style="text-align: center;">PVSC Stock Number(s) 1 kg Container</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">Temperature Range, Degrees</td> <td style="width: 50%;">-40°C to 260°C</td> </tr> <tr> <td>NLGI Grade</td> <td>2</td> </tr> <tr> <td>Specific Gravity at (20°C)</td> <td>1.96</td> </tr> <tr> <td>Thickener</td> <td>PTFE</td> </tr> <tr> <td>Base Oil</td> <td>PFAE</td> </tr> <tr> <td>Base Oil Viscosity</td> <td></td> </tr> <tr> <td>cST 40°C</td> <td>400</td> </tr> <tr> <td>cST 100°C</td> <td>35</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>			Temperature Range, Degrees	-40°C to 260°C	NLGI Grade	2	Specific Gravity at (20°C)	1.96	Thickener	PTFE	Base Oil	PFAE	Base Oil Viscosity		cST 40°C	400	cST 100°C	35
Temperature Range, Degrees	-40°C to 260°C																	
NLGI Grade	2																	
Specific Gravity at (20°C)	1.96																	
Thickener	PTFE																	
Base Oil	PFAE																	
Base Oil Viscosity																		
cST 40°C	400																	
cST 100°C	35																	
Notes: (1) Conforming Commercial Products: Kluber Barrierta L 55/2 (2) NO SUBSTITUTE WILL BE ACCEPTED																		
Used on (PVSC Equipment): <p style="text-align: center;">Westfalia Centrifuge</p>																		
Prepared by: JB Date: Jan. 2003		Revisions:																
2010 PVSC Spec/al																		

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

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