



State of West Virginia  
 Department of Administration  
 Purchasing Division  
 2019 Washington Street East  
 Post Office Box 50130  
 Charleston, WV 25305-0130

# Request for Quotation

|            |
|------------|
| RFQ NUMBER |
| OIL10      |

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| PAGE |
| 1    |

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| ADDRESS CORRESPONDENCE TO ATTENTION OF: |
| JO ANN ADKINS<br>304-558-8802           |

PURCHASER

\*709035119      304-926-3000  
 PETROLEUM PRODUCTS INC  
 PURGE NEXT CYCLE  
 BELLE WV 25015

SHIP TO

ALL STATE AGENCIES  
 AND POLITICAL SUBDIVISIONS  
 VARIOUS LOCALES AS INDICATED  
 BY ORDER

|              |               |                    |           |               |
|--------------|---------------|--------------------|-----------|---------------|
| DATE PRINTED | TERMS OF SALE | SHIP VIA           | F.O.B.    | FREIGHT TERMS |
| 08/19/2010   | NET 30 DAYS   | OUR FAVORITE / UPS | DELIVERED |               |

BID OPENING DATE: 09/21/2010      BID OPENING TIME 01:30PM

| LINE   | QUANTITY | UOP | CAT NO. | ITEM NUMBER | UNIT PRICE | AMOUNT |
|--|----------|-----|---------|-------------|------------|--------|
| REQUEST FOR QUOTATION  |          |     |         |             |            |        |
| <p>THE PURCHASING DIVISION IS SOLICITING BIDS FOR OIL, LUBRICANTS AND GREASES FOR ALL WEST VIRGINIA STATE AGENCIES AND POLITICAL SUBDIVISIONS WITHIN THE STATE. BIDS SHALL MEET THE ATTACHED GENERAL AND LINE SPECIFICATIONS.</p> <p>VENDORS SHALL USE THE ATTACHED "PRICING PAGE -OIL10" TO ENTER THEIR QUOTATION FOR EACH ITEM. AN ELECTRONIC VERISON OF OIL10 PRICING PAGES CAN BE FOUND AT:<br/> <a href="http://www.state.wv.us/admin/purchase/newbul.htm">HTTP://WWW.STATE.WV.US/ADMIN/PURCHASE/NEWBUL.HTM</a><br/>           BIDDERS ARE REQUESTED THAT IN ADDITION TO THE REQUIRED PAPER BID THAT AN ELECTRONIC VERSION BE SUBMITTED WITH THEIR BID. VENDORS SHALL NOT E-MAIL THE ELECTRONIC COPY.<br/>           IN THE EVENT THE PAPER BID AND THE ELECTRONIC BID COPY DO NOT MATCH, THE PAPER BID SHALL PREVAIL.</p> <p>ALL PRICES SHALL BE F.O.B. DESTINATION - SHIPPING PREPAID AND INCLUDED IN THE VENDOR PRICE SHOWN. PLEASE COMPLETE ALL INFORMATION REQUESTED ON THE OIL10 PRICING PAGES: LOCATION OF WAREHOUSES FROM WHICH SHIPMENTS MAY BE MADE; CONTRACT COORDINATOR NAME, TELEPHONE NUMBER, IF AVAILABLE LIST TOLL FREE NUMBER; FAX NUMBER AND E-MAIL.</p> <p>BIDDERS SHOULD ENTER THE NUMBER OF DAYS REQUIRED FOR DELIVERY AFTER RECEIPT OF ORDER (ARO). BIDDERS SHOULD ADD THEIR COMPANY NAME TO EACH PAGE; THE NAME, SIGNATURE, TITLE AND DATE ON THE LAST SHEET OF THE PRICING PAGE FORM SHOULD BE COMPLETED.</p> |          |     |         |             |            |        |

RECEIVED  
 2010 SEP 21 AM 11:53  
 WV PURCHASING DIVISION

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

|                              |                |                                   |
|------------------------------|----------------|-----------------------------------|
| SIGNATURE                    | TELEPHONE      | DATE                              |
| <i>David A. Martin</i>       | (304) 204-1914 | 9/21/10                           |
| TITLE                        | FEIN           | ADDRESS CHANGES TO BE NOTED ABOVE |
| <i>JERRANAE SACHS MANNOW</i> | 550253577      |                                   |

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'

## GENERAL TERMS & CONDITIONS PURCHASE ORDER/CONTRACT

1. **ACCEPTANCE:** Seller shall be bound by this order and its terms and conditions upon receipt of this order.
2. **APPLICABLE LAW:** The laws of the State of West Virginia and the *Legislative Rules* of the Purchasing Division shall govern all rights and duties under the Contract, including without limitation the validity of this Purchase Order/Contract.
3. **NON-FUNDING:** All services performed or goods delivered under State Purchase Orders/Contracts are to be continued for the terms of the Purchase Order/Contract, contingent upon funds being appropriated by the Legislature or otherwise being made available. In the event funds are not appropriated or otherwise available for these services or goods, this Purchase Order/Contract becomes void and of no effect after June 30.
4. **COMPLIANCE:** Seller shall comply with all federal, state and local laws, regulations and ordinances including, but not limited to, the prevailing wage rates of the WV Division of Labor.
5. **MODIFICATIONS:** This writing is the parties' final expression of intent. No modification of this order shall be binding unless agreed to in writing by the Buyer.
6. **ASSIGNMENT:** Neither this Order nor any monies due, or to become due hereunder may be assigned by the Seller without the Buyer's consent.
7. **WARRANTY:** The Seller expressly warrants that the goods and/or services covered by this order will:  
{a} conform to the specifications, drawings, samples or other description furnished or specified by the Buyer; {b} be merchantable and fit for the purpose intended; and/or {c} be free from defect in material and workmanship.
8. **CANCELLATION:** The Director of Purchasing may cancel any Purchase Order/Contract upon 30 days written notice to the seller.
9. **SHIPPING, BILLING & PRICES:** Prices are those stated in this order. No price increase will be accepted without written authority from the Buyer. All goods or services shall be shipped on or before the date specified in this Order.
10. **LATE PAYMENTS:** Payments may only be made after the delivery of goods or services. Interest may be paid on late payments in accordance with the *West Virginia Code*.
11. **TAXES:** The State of West Virginia is exempt from federal and state taxes and will not pay or reimburse such taxes.
12. **RENEWAL:** Any reference to automatic renewal is hereby deleted. The Contract may be renewed only upon mutual written agreement of the parties.
13. **BANKRUPTCY:** In the event the vendor/contractor files for bankruptcy protection, the State may deem this contract null and void, and terminate such contract without further order.
14. **HIPAA BUSINESS ASSOCIATE ADDENDUM:** The West Virginia State Government HIPAA Business Associate Addendum (BAA), approved by the Attorney General, is available online at [www.state.wv.us/admin/purchase/vrc/hipaa.htm](http://www.state.wv.us/admin/purchase/vrc/hipaa.htm) and is hereby made part of the agreement provided that the Agency meets the definition of a Cover Entity (45 CFR §160.103) and will be disclosing Protected Health Information (45 CFR §160.103) to the vendor.
15. **CONFIDENTIALITY:** The vendor agrees that he or she will not disclose to anyone, directly or indirectly, any such personally identifiable information or other confidential information gained from the agency, unless the individual who is the subject of the information consents to the disclosure in writing or the disclosure is made pursuant to the agency's policies, procedures, and rules. Vendor further agrees to comply with the Confidentiality Policies and Information Security Accountability Requirements, set forth in <http://www.state.wv.us/admin/purchase/privacy/noticeConfidentiality.pdf>.
16. **LICENSING:** Vendors must be licensed and in good standing in accordance with any and all state and local laws and requirements by any state or local agency of West Virginia, including, but not limited to, the West Virginia Secretary of State's Office, the West Virginia Tax Department, West Virginia Insurance Commission, or any other state agency or political subdivision. Furthermore, the vendor must provide all necessary releases to obtain information to enable the Director or spending unit to verify that the vendor is licensed and in good standing with the above entities.
17. **ANTITRUST:** In accepting this purchase order or signing this contract with any agency for the State of West Virginia, the vendor agrees to convey, sell, assign, or transfer to the State of West Virginia all rights, title, and interest in and to all causes of action it may now or hereafter acquire under the antitrust laws of the United States and the State of West Virginia for price fixing and/or unreasonable restraints of trade relating to the particular commodities or services purchased or acquired by the State of West Virginia. Such assignment shall be made and become effective at the time the purchasing agency tenders the initial payment to vendor. Vendor certifies that this purchase order or contract is accepted or entered into without any prior understanding, agreement, or connection to any other entity that could be considered a violation of law. Vendor further certifies that this purchase order or contract is in all respects fair and without collusion or fraud.



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| ADDRESS CORRESPONDENCE TO ATTENTION OF |
| JO ANN ADKINS<br>304-558-8802          |

VENDOR

\*709035119      304-926-3000  
 PETROLEUM PRODUCTS INC  
 PURGE NEXT CYCLE  
 BELLE WV 25015

SHIP TO

ALL STATE AGENCIES  
 AND POLITICAL SUBDIVISIONS  
 VARIOUS LOCALES AS INDICATED  
 BY ORDER

|                   |               |                  |           |               |
|-------------------|---------------|------------------|-----------|---------------|
| DATE PRINTED      | TERMS OF SALE | SHIP VIA         | F.O.B.    | FREIGHT TERMS |
| 08/19/2010        | NET 30 DAYS   | OUR TRUCK / UPS  | DELIVERED |               |
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|--|----------|-----|---------|-------------|------------|--------|
| <p>ANY CHARGES FOR SUPERFUND TAX MUST BE INCLUDED IN THE BID ITEM PRICE.</p> <p>PRICES ARE PER THE ATTACHED "PRICING PAGE -OIL10"</p> <p>ALL ORDERS THAT TOTAL \$100.00 OR MORE MUST BE SHIPPED F.O.B. DESTINATION. ORDERS LESS THAN \$100.00 MAY BE OBTAINED BY THE AGENCY USING ALTERNATIVE PROCUREMENT METHODS. IF THE AGENCY CHOOSES TO ORDER LESS THAN \$100.00 ANY TRANSPORTATION COSTS WILL BE INVOICED AS A SEPARATE CHARGE WITH THE ORIGINAL FREIGHT BILL ATTACHED TO THE INVOICE.</p> <p>THIS CONTRACT COVERS CASE LOTS, TRAILER LOAD PRICES AND BULK DELIVERY TO ANY LOCATION WITHIN WEST VIRGINIA. A TRAILER LOAD NORMALLY WILL BE BETWEEN 40,000 AND 45,000 POUNDS. TRAILER LOAD SHIPMENTS DO NOT NECESSARILY HAVE TO BE ONE PRODUCT. A COMBINATION OF ANY AND ALL PRODUCTS MAY BE ORDERED TO MEET THE TRAILER LOAD PRICE.</p> <p>CONTRACT AWARD: THIS CONTRACT WILL NOT BE SPLIT. THE AWARD WILL BE MADE TO THE VENDOR WITH THE LOW BID FOR ALL ITEMS SHOWN, (MEETING MANDATORY SPECIFICATIONS), UNIT PRICE LESS THAN TRUCKLOAD AND BULK PRICES.</p> |          |     |         |             |            |        |
| 0001   | 1        | LS  |         | 405-39      |            |        |
| LUBRICANTS, OIL AND GREASES  |          |     |         |             |            |        |

|                                    |  |                |                          |                                   |              |
|------------------------------------|--|----------------|--------------------------|-----------------------------------|--------------|
| SIGNATURE <i>David J. Mante</i>    |  |                | TELEPHONE (304) 204-1914 |                                   | DATE 9/21/10 |
| TITLE <i>INTERIM SALES MANAGER</i> |  | FEIN 550253577 |                          | ADDRESS CHANGES TO BE NOTED ABOVE |              |

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VENDOR

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 BELLE WV 25015

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| <p>INQUIRIES</p> <p>WRITTEN QUESTIONS SHALL BE ACCEPTED THROUGH CLOSE OF BUSINESS ON TUESDAY, SEPTEMBER 7, 2010. QUESTIONS MAY BE SENT VIA USPS, FAX, COURIER OR E-MAIL IN ORDER TO ASSURE NO VENDOR RECEIVES AN UNFAIR ADVANTAGE, NO SUBSTANTIVE QUESTIONS WILL BE ANSWERED ORALLY. IF POSSIBLE, E-MAIL QUESTIONS ARE PREFERRED. ADDRESS INQUIRIES TO:</p> <p>JO ANN ADKINS<br/>           DEPARTMENT OF ADMINISTRATION<br/>           PURCHASING DIVISION<br/>           2019 WASHINGTON STREET, EAST<br/>           CHARLESTON, WV 25305<br/>           FAX: 304.558.4115<br/>           E-MAIL: JO.A.ADKINS@WV.GOV</p> <p>EXHIBIT 3</p> <p>LIFE OF CONTRACT: THIS CONTRACT BECOMES EFFECTIVE ON ..... AND EXTENDS FOR A PERIOD OF ONE (1) YEAR OR UNTIL SUCH "REASONABLE TIME" THEREAFTER AS IS NECESSARY TO OBTAIN A NEW CONTRACT OR RENEW THE ORIGINAL CONTRACT. THE "REASONABLE TIME" PERIOD SHALL NOT EXCEED TWELVE (12) MONTHS. DURING THIS "REASONABLE TIME" THE VENDOR MAY TERMINATE THIS CONTRACT FOR ANY REASON UPON GIVING THE DIRECTOR OF PURCHASING 30 DAYS WRITTEN NOTICE.</p> <p>UNLESS SPECIFIC PROVISIONS ARE STIPULATED ELSEWHERE IN THIS CONTRACT DOCUMENT, THE TERMS, CONDITIONS AND PRICING SET HEREIN ARE FIRM FOR THE LIFE OF THE CONTRACT.</p> |          |     |          |             |            |        |

|   |                |                                   |  |
|---|----------------|-----------------------------------|--|
| SEE REVERSE SIDE FOR TERMS AND CONDITIONS |                |                                   |  |
| SIGNATURE                                 | TELEPHONE      | DATE                              |  |
| <i>David J. Mants</i>                     | (304) 204-1914 | 9/21/10                           |  |
| TITLE                                     | FEIN           | ADDRESS CHANGES TO BE NOTED ABOVE |  |
| Interna Sales Manager                     | 550253577      |                                   |  |

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| <p>RENEWAL: THIS CONTRACT MAY BE RENEWED UPON THE MUTUAL WRITTEN CONSENT OF THE SPENDING UNIT AND VENDOR, SUBMITTED TO THE DIRECTOR OF PURCHASING THIRTY (30) DAYS PRIOR TO THE EXPIRATION DATE. SUCH RENEWAL SHALL BE IN ACCORDANCE WITH THE TERMS AND CONDITIONS OF THE ORIGINAL CONTRACT AND SHALL BE LIMITED TO TWO (2) ONE (1) YEAR PERIODS.</p> <p>CANCELLATION: THE DIRECTOR OF PURCHASING RESERVES THE RIGHT TO CANCEL THIS CONTRACT IMMEDIATELY UPON WRITTEN NOTICE TO THE VENDOR IF THE COMMODITIES AND/OR SERVICE SUPPLIED ARE OF AN INFERIOR QUALITY OR DO NOT CONFORM TO THE SPECIFICATIONS OF THE BID AND CONTRACT HEREIN.</p> <p>OPEN MARKET CLAUSE: THE DIRECTOR OF PURCHASING MAY AUTHORIZE A SPENDING UNIT TO PURCHASE ON THE OPEN MARKET, WITHOUT THE FILING OF A REQUISITION OR COST ESTIMATE, ITEMS SPECIFIED ON THIS CONTRACT FOR IMMEDIATE DELIVERY IN EMERGENCIES DUE TO UNFORESEEN CAUSES (INCLUDING BUT NOT LIMITED TO DELAYS IN TRANSPORTATION OR AN UNANTICIPATED INCREASE IN THE VOLUME OF WORK.)</p> <p>QUANTITIES: QUANTITIES LISTED IN THE REQUISITION ARE APPROXIMATIONS ONLY, BASED ON ESTIMATES SUPPLIED BY THE STATE SPENDING UNIT. IT IS UNDERSTOOD AND AGREED THAT THE CONTRACT SHALL COVER THE QUANTITIES ACTUALLY ORDERED FOR DELIVERY DURING THE TERM OF THE CONTRACT, WHETHER MORE OR LESS THAN THE QUANTITIES SHOWN.</p> <p>ORDERING PROCEDURE: SPENDING UNIT(S) SHALL ISSUE A WRITTEN STATE CONTRACT ORDER (FORM NUMBER WV-39) TO THE VENDOR FOR COMMODITIES COVERED BY THIS CONTRACT. THE ORIGINAL COPY OF THE WV-39 SHALL BE MAILED TO THE VENDOR AS AUTHORIZATION FOR SHIPMENT, A SECOND COPY</p> |          |     |          |             |            |        |

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|---|----------------|-----------------------------------|--|
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| SIGNATURE                                 | TELEPHONE      | DATE                              |  |
| <i>David L. Minter</i>                    | (304) 204-1914 | 9/21/10                           |  |
| TITLE                                     | FEIN           | ADDRESS CHANGES TO BE NOTED ABOVE |  |
| IN PURCHASING MANAGER                     | 550253577      |                                   |  |

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| <p>MAILED TO THE PURCHASING DIVISION, AND A THIRD COPY RETAINED BY THE SPENDING UNIT.</p> <p>BANKRUPTCY: IN THE EVENT THE VENDOR/CONTRACTOR FILES FOR BANKRUPTCY PROTECTION, THIS CONTRACT IS AUTOMATICALLY NULL AND VOID, AND IS TERMINATED WITHOUT FURTHER ORDER.</p> <p>THE TERMS AND CONDITIONS CONTAINED IN THIS CONTRACT SHALL SUPERSEDE ANY AND ALL SUBSEQUENT TERMS AND CONDITIONS WHICH MAY APPEAR ON ANY ATTACHED PRINTED DOCUMENTS SUCH AS PRICE LISTS, ORDER FORMS, SALES AGREEMENTS OR MAINTENANCE AGREEMENTS, INCLUDING ANY ELECTRONIC MEDIUM SUCH AS CD-ROM.</p> <p>PURCHASING CARD ACCEPTANCE: THE STATE OF WEST VIRGINIA CURRENTLY UTILIZES A VISA PURCHASING CARD PROGRAM WHICH IS ISSUED THROUGH A BANK. THE SUCCESSFUL VENDOR MUST ACCEPT THE STATE OF WEST VIRGINIA VISA PURCHASING CARD FOR PAYMENT OF ALL ORDERS PLACED BY ANY STATE AGENCY AS A CONDITION OF AWARD.</p> <p>EXHIBIT 10</p> <p>REQUISITION NO.: .01410.....</p> <p>ADDENDUM ACKNOWLEDGEMENT</p> <p>I HEREBY ACKNOWLEDGE RECEIPT OF THE FOLLOWING CHECKED</p> |          |     |          |             |            |        |

|   |                |                                   |  |
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| SIGNATURE                                 | TELEPHONE      | DATE                              |  |
| <i>David J. Marks</i>                     | (304) 204-1914 | 9/21/10                           |  |
| TITLE                                     | FEIN           | ADDRESS CHANGES TO BE NOTED ABOVE |  |
| INTERNAL SALES MANAGER                    | 550253577      |                                   |  |

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VENDOR

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| <p>ADDENDUM(S) AND HAVE MADE THE NECESSARY REVISIONS TO MY PROPOSAL, PLANS AND/OR SPECIFICATION, ETC.</p> <p>ADDENDUM NO.'S:</p> <p>NO. 1 <i>DM</i>...</p> <p>NO. 2 <i>DM</i>...</p> <p>NO. 3 .....</p> <p>NO. 4 .....</p> <p>NO. 5 .....</p> <p>I UNDERSTAND THAT FAILURE TO CONFIRM THE RECEIPT OF THE ADDENDUM(S) MAY BE CAUSE FOR REJECTION OF BIDS.</p> <p>VENDOR MUST CLEARLY UNDERSTAND THAT ANY VERBAL REPRESENTATION MADE OR ASSUMED TO BE MADE DURING ANY ORAL DISCUSSION HELD BETWEEN VENDOR'S REPRESENTATIVES AND ANY STATE PERSONNEL IS NOT BINDING. ONLY THE INFORMATION ISSUED IN WRITING AND ADDED TO THE SPECIFICATIONS BY AN OFFICIAL ADDENDUM IS BINDING.</p> <p style="text-align: right;"> <i>David D. Marts</i><br/>           .....<br/>           SIGNATURE<br/>           .....<br/>           PETROLEUM PRODUCTS, INC.<br/>           COMPANY<br/>           .....<br/>           SEPTEMBER 21, 2010<br/>           DATE         </p> |          |     |          |             |            |        |

|   |                |                                   |
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| SIGNATURE                                 | TELEPHONE      | DATE                              |
| <i>David D. Marts</i>                     | (304) 204-1914 | 9-21-10                           |
| TITLE                                     | FEIN           | ADDRESS CHANGES TO BE NOTED ABOVE |
| INTERNAL SALES MANAGER                    | 550253577      |                                   |

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**8**

ADDRESS CORRESPONDENCE TO ATTENTION OF  
**JO ANN ADKINS**  
**304-558-8802**

VENDOR

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|------------------------------|----------|-----|----------|--|--------------------|----------------|
|                              |          |     |          | (304) 755-3792                         |                    |                |
|                              |          |     |          | CONTACT PERSON (PLEASE PRINT CLEARLY): |                    |                |
|                              |          |     |          | DAVID L. MARTIN                        |                    |                |
| ***** THIS IS THE END OF RFQ |          |     |          |  | OIL10 ***** TOTAL: | \$1,246,466.90 |

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE *David Martin* TELEPHONE (304) 204-1914 DATE 9/21/10

TITLE *Intranet Sales Manager* FEIN 550253577 ADDRESS CHANGES TO BE NOTED ABOVE

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## OIL10

### General Specifications

Each bid should be accompanied by nationally published certifiable literature and/or Certification from an independent laboratory that the oil has passed the ASTM requirements described herein. The bidder shall be responsible for the cost of the independent laboratory testing. Failure to provide information may be grounds for rejection of the bid.

Additionally, the West Virginia Department of Transportation will randomly test samples of the delivered product through its Material Division laboratory or an independent laboratory throughout the term of the contract to ensure continuous conformity with the specifications. Upon failure of a random test sample, the supplier shall be required to replace all containers of the product of the same batch number as the failed sample.

Each container of the oil furnished under this specification shall be labeled as follows: corresponding brand name, product name, SAE viscosity grade, API Seal of Approval, API categories, and batch number of its contents, date, and manufacture's name and address.

Successful bidder may be required to furnish a sample of any or all oil bid for test purposes prior to award.

NOTE: All drums shall be labeled as required by OSHA for hazardous material and Material Safety Data Sheets (MSDS) must be submitted with bid and shipped with product.

Packing slip must accompany all shipments. All drums to be sealed and shipped on two-way, non-returnable pallets.

Description: SAE viscosity grades and API service (where applicable) are specified under the detailed requirements for each product.

The successful bidder shall not substitute any other brand from that awarded, nor sell any additional items under their contract not specifically covered herein, without prior permission of the Purchasing Division.

The item(s) as specified is (are) shown only as an example of the quality level and operational characteristics requested by the agency and not intended to mean the only acceptable brand.

Applicable standards: The following documents of current issue and in effect on the bid opening date shall form a part of this specification to the extent specified:

ASTM D 217  
ASTM D 811  
ASTM D 874  
ASTM D 1263  
ASTM D 1264  
ASTM D 2265  
ASTM D 2619  
ASTM D 4048  
ASTM D 4049

American Society for Testing and Materials (ASTM)  
100 Barr Harbor Drive  
PO Box C700  
West Conshohocken, PA 19428-2959  
API Engine Service Classification System

American Petroleum Institute (API)  
Division of Marketing  
1220 L Street, NW  
Washington, DC 20005-4070

SAE J183 – Engine oil performance and engine service classification.

Society of Automotive Engineers (SAE)  
400 Commonwealth Drive  
Warrendale, PA 15096

MIL-L-46152E  
MIL-L-2104E  
MIL-L-2105D

US Government Printing Office  
Superintendent of Documents  
Washington, DC

National Marine Manufacturers Association (NMMA)  
401 North Michigan Avenue  
Chicago, IL 60611

National Lubricating Grease Institute (NLGI)  
4635 Wyandotte Street  
Kansas City, MO 63113

**Warranty:**

The contractor warrants under penalty for fraud that any products furnished shall be of the grade and quality required in this specification.

**Service and Manuals:**

The contractor shall provide technical information and service concerning the use of Products furnished under these specifications when requested by using agencies.

**Acceptance, inspection and quality assurance:**

Normally, sampling and testing will not be required. The State reserves the right, however, to conduct tests, require samples or require test results to insure compliance with the requirements of this specification.

Using agencies shall inspect for proper identification of products, damaged or leaking containers and other apparent irregularities.

**Delivery:**

Product shall be furnished as specified and shall be packaged in accordance with the best commercial practice. All shipping container shall be marked to show the brand name and description of the products. All products should be palletized and shrink wrapped except 55 gallon containers.

**Drum Deposits:**

Where a deposit is required for shipping product in returnable drums the amount shall be shown as a separate item on the invoice and the full amount shall be refundable or credited to the agency's account upon return. The state reserves the right to consider the amount of the deposit as a factor in determining the award of this contract. Returnable drums may be returned by the contractor picking up the drums with his own truck or by the state shipping them to the contractor, transportation charges collect.

Deposit and credit for returnable 55 gal. drums                   \$   N/A   each

**Material Safety Data Sheets:**

In addition to meeting current federal and state laws and requirements concerning hazardous chemicals, the contractor shall forward a proper and current material safety data sheet (MSDS). Furthermore, the contractor shall furnish the State and/or its agencies additional MSDS as required. By offering and signing a bid response the bidder agrees to these conditions:

### **Item Specifications:**

#### **Items 1&2**

1. Chain Saw Motor Oil: (also Power Mowers, Pumps, and Snowmobiles). This oil shall be of high quality and specifically compounded and marketed for mixing with gasoline to lubricate two-cycle, air and water cooled engines. It shall meet the warranty requirements as an engine lubricant for the major manufactures of two-cycle engines used on chain saws, power mowers, pumps, and snowmobiles.

The motor oil shall be satisfactory for use in any fuel to oil ratio as specified by the engine manufacturer up to an including 50:1. The product offered shall be available in the SAE viscosity grade(s) specified for use in Homelite, McCulloch, Poulan and other two-cycle chain saws.

2. Out Board Motor Oil: This motor oil shall be high quality, ashless and specifically compound and marketed for mixing with gasoline to lubricate two cycle, water cooled engines. It shall have been tested and certified by the National Marine Manufacturers Association (NMMA) for TC-W III and each container shall state same.

The motor oil shall be satisfactory for use is any fuel to oil ratio as specified by the engine manufacturer, up to and including 50:1. The product offered shall be available in the SAE viscosity grade(s) specified by the engine manufacturers for use in all Evinrude, Johnson, Mercury and other two cycle outboard motors.

#### **Items 3 -14, 47**

Motor oil and hydraulic oil shipped in black 55 gallon drums or bulk tractor trailer load (6,000 gallons) shall be produced from virgin materials, suitable for use in passenger cars and trucks, diesel and gasoline engines, viscosity grade, SAE 15W40 must be API certified and have the API seal of approval on the product.

This is an engine oil suitable for use in passenger cars and heavy duty engines used in trucks and heavy construction equipment. The oil furnished under this specifications shall be viscosity grade SAE 15W-40 and shall meet all requirements for diesel and

gasoline engines.

The oil furnished shall meet the performance requirements ("Primary Performance Criteria") described in ASTM designated D4485 for performance categories API, CJ-4, CI-4 Plus, CH-4, CG-4, CF-4/SL, SM. Conformance of the oil furnished with the performance requirements shall be Determined with the test methods identified in ASTM D 4485 for all categories.

Motor oil for all diesel and gasoline engine service:

API Service Categories:

SAE 30 API, CF-4, CF-2 CF/SJ  
 SAE15W40 API, CJ-4, CI-4 PLUS, CH-4 CG-4, CF-4SL, SM  
 SAE 10 API CF-4 CAT T0-2, ALLISON C-4  
 SAE 40 API CF-4, CF-2, CF/SJ  
 SAE 5W20 API SM, SL, SJ, ISLAC GF-4  
 SAE 5W30 API SM, SL, SJ, ISLAC GF-4  
 SAE 10W30 API SM, SL, SJ, ISLAC GF-4  
 SAE 20W50 API SL, SJ SH, SG  
 SAE 10W40 API SL, SJ SH, SG

Crankcase oil suitable for use in late model diesel and gasoline engines where this service category oil requirement is specified by the engine manufacturer.

Must meet the performance level of MIL-L-2104E and MIL-L-45152D

Sulfated ash (ASTM D-874) shall be a maximum of 1% by weight.

Minimum viscosity index for all motor oils shall be 95.

### **Items 15-17**

Extreme Pressure Gear Lubricant:

API Service Category – GL-5, PG-1, PG-2

These lubricants are intended for use in passenger car, truck, and tractor differentials (particularly hypoid type), steering gears, and other points requiring a lubricant of exceptional load carrying ability.

SAE Viscosity Grades – 80W90 and 85W140

**Item 18**

Gear lubricants are designed for use in automotive and heavy duty equipment transmission and differentials where an EP (extreme pressure) lubricant is not required and where an API Service Designation GL-1 gear oil is specifically called for by the equipment manufacturer.

**Item 19**

Is a fully synthetic, SAE 50 lubricant for use in heavy-duty truck manual transmissions that meet EATON PS-164, R7, MACK TO-A PLUS, NAVISTAR TMS 6816.

**Items 20 - 22**

Wheel Bearing and Chassis Grease:

This grease shall be designated by the manufacturers as suitable for a multipurpose use in cars, light and heavy duty trucks, and industrial equipment. Made from a lithium complex soap.

Salient Characteristics: (High Dropping Point)

1. NLGI Consistency #1 and #2
2. Rust protection and resistance to oxidation
3. Resistance to water without washout (ASTM D 1264)
4. Leakage resistance (ASTM D 1263)
5. Extreme pressure properties
6. Anti-wear properties
7. Load carrying properties
8. Dropping point (ASTM D2265) of Min. 450 degree F.
9. Worked penetration (ASTM D217)

NLGI #1 310-340

NLGI #2 265-295

10. NLGI - GC/LB

**Items 23 - 25**

All Purpose Grease (Moly):

This grease shall be designated by the manufacturer as suitable for use in industrial, automotive and construction equipment applications including heavy stock loading conditions.

Salient Characteristics:

1. NLGI Consistency #2

2. Rust protection and resistance to oxidation
3. Resistance to water washout
4. Extreme pressure properties
5. Anti-wear properties
6. Good mechanical stability
7. Low pressure properties
8. Dropping point (ASTM D 2265) of Min. 500 Degree F.
9. 3% Moly (Cat. Reg.)

### Items 26 - 32

Hydraulic Oil (Hydraulic Hoist Oil):

This product shall be specially blended for service in hydraulic systems employing either vane or gear type pumps on snow removal and road construction equipment and hydraulic-operated equipment.

Note: This oil is not intended for use in hydraulic brakes and automobile-type power Steering units.

Grades:

Light Weight – for use when outside temperature is generally below 32 degrees F.

Medium Weight – for use when outside temperature is generally between 32 Degrees and 100 Degrees F.

Heavy Weight – for use in some systems where ambient temperatures are generally higher and heavier weight products are recommended..

This hydraulic oil shall satisfy the requirements of hydraulic systems used in the application above. Oil shall have good demulsibility characteristics and shall not produce deleterious effects on neoprene, leather or other type seals used in such

hydraulic systems. Product shall contain corrosion, oxidation, antiwear and foam inhibitors in sufficient quantities and quality to adequately protect the hydraulic system including pumps, motor and valves. This oil shall have been tested per ASTM D2619 and approved for use as a quality product in this application.

Abex Denison HF-0, HF-1 HF-2  
 Sperry Vickers M-2950-S, 1-286-S  
 Sunstrand Hydrostatics



Minimum viscosity index for all Hydraulic Oils shall be 95

Light Weight – Cincinnati Milacron Specifications p-68

Medium Weight – Cincinnati Milacron Specifications p-70

Heavy Weight – Cincinnati Milacron Specifications p-69

### **Items 33 - 34**

Transmission Fluid:

This automatic transmission fluid shall be suitable for use in any application where conventional ATF fluid is specified (Dexron III-Mercon).

### **Items 35-36**

TO-4 Fluids

Transmission fluids to meet rigid demands of Caterpillar equipment and Allison C-4. Must provide outstanding rust corrosion control and oxidation stability, foam resistance and elastomer compatibility. The product offered shall meet CAT TO-4 requirements.

### **Item 37**

Transmission Fluid:

This automatic transmission fluid shall be suitable for use in any application where multi-vehicle ATF fluid is specified meeting specification DEXRON III, MERCON, MERCON V, ATF +3, ATF +4.

### **Items 38 -39**

Combination Fluid:

Formulated for late model farm equipment, off highway machinery, and industrial tractors where transmissions, final drives, wet brakes and hydraulics are supplied from a common fluid reservoir.

Combination fluid, combination hydraulic, transmission, differential fluid for use in tractors requiring combination fluid. This fluid shall have all the varying characteristics

of the following specifications John Deere J20A, Allis Chalmers 257541, Massey Ferguson Permatran III, White Equipment Q-1722, and Ford M2C134A.

**Items 40**

Railroad diesel engine oil must be a generation 4 oil as designated by (LOMA) EMD approved.

**Items 41**

Synthetic Motor Oil for Diesel and Gasoline Engines:

API Service Categories

SAE 5W30 – CF/SL

SAE 10W30 – CF/SL

SAE 5W40 – CJ-4

All should meet the following: Passenger cars and light truck – GM 6094M , GM 4718M and Ford ESE-MC153-E

Must meet the performance level of MIL-L-46152E and MIL-L-2104D

**Items 42 - 44**

Synthetic Multitpurpose Gear Lubricant:

API Service Category – GL-5

These lubricants are intended for use in passenger car, truck, and tractor differentials, steering gears and other points requiring a lubricant of exceptional load carrying ability.

SAE Viscosity grades, 75W90 and 80W140

The gear lubricant shall be manufactured from synthesized hydrocarbon base oils and a sulfur phosphorus gear lubricant additive package.

**Items 45 - 46**

Formulated Gear Oil:

API Service Category – GL-5

These lubricants are intended for use in limited slip and conventional differentials of passenger cars and trucks. Product shall contain: rust, corrosion, antiwear and foam inhibitors for transmissions and differentials.

SAE Viscosity grade: 80W90

**ITEM 48**

Automatic Transmission Fluid meeting GM specification DEXRON-VI.

**ITEM 49**

A premium quality heavy-duty universal power shift and automatic transmission fluid which is suitable for use in transmissions requiring Allison TES-295 fluids.

These specifications cover the motor oils, lubricants and greases that are usually purchased by the State of West Virginia for use in automobiles, trucks and other motorized equipment.

PRICING PAGE - OIL 09

VENDOR: *Petroleum Products, Inc.*

| ITEM | DESCRIPTION   | CONTAINERS/<br>PACKAGING          | MFR     | BRAND BID                    | EST. QTY. | UNIT PRICE<br>TRUCK LOAD | UNIT PRICE<br>LESS THAN<br>TRUCK LOAD | EXTENDED<br>PRICE LESS<br>THAN TRUCK<br>LOAD |
|------|---|-----------------------------------|---------|------------------------------|-----------|--------------------------|---------------------------------------|--|
| 1    | Motor oil for lubricating 2 cycle engines one pint containers (chain saw motor oil) API TC                | 24/8 oz. pts./cs.                 | Citgo   | Supergard Air-Cooled 2-Cycle | 1800      | \$ 2.35 / pt.            | \$ 2.44 / pt.                         | \$ 4,392.00 / pt.                            |
| 2    | Motor oil for lubricating 2 cycle engines (out board motor oil) API TC-W3                                 | 12/1 qt. plastic containers       | Conoco  | XHP 2 Cycle                  | 1300      | \$ 2.97 / qt.            | \$ 3.08 / qt.                         | \$ 4,004.00 / qt.                            |
| 3    | Motor oil for all diesel and gasoline engine service SAE30 CF-2 CF/SJ                                     | 12/1 qt. plastic containers       | Conoco  | HD Fleet 30                  | 3300      | \$ 2.37 / qt.            | \$ 2.46 / qt.                         | \$ 8,118.00 / qt.                            |
| 4    | Motor oil for all diesel and gasoline engine service SAE15W40 CI-4 CF/SJ CJ-4, CI-4 PLUS, CH-4, CG-4      | 12/1 qt. plastic containers       | Conoco  | Fleet Supreme EC 15w-40      | 150,000   | \$ 2.52 / qt.            | \$ 2.61 / qt.                         | \$ 391,500.00 / qt.                          |
| 5    | Motor oil for all diesel and gasoline engine service SAE15W40 CJ-4, CI-4 PLUS, CH-4, CG-4, CF-4/SL, SM    | 55 gal. drum                      | Conoco  | Fleet Supreme EC 15w-40      | 1320      | \$ 7.04 / gal.           | \$ 7.29 / gal.                        | \$ 9,622.80 / gal.                           |
| 6    | Motor oil for all diesel and gasoline engine service SAE15W40 BULK CJ-4, CI-4PLUS, CH-4, CG4, CF-4/SL, SM | BULK 6,000 gal. drum              | Conoco  | Fleet Supreme EC 15w-40      | 6000      | \$ 6.47 / gal.           | \$ 6.71 / gal.                        | \$ 40,260.00 / gal.                          |
| 7    | Motor oil for all diesel and gasoline engine service SAE10 CF/SL CAT TO-2, ALLISON C-4                    | 5 gal containers                  | Citgo   | Citgard 600 10               | 2400      | \$ 7.86 / gal.           | \$ 8.15 / gal.                        | \$ 19,560.00 / gal.                          |
| 8    | Motor oil for all diesel and gasoline engine service SAE10 CF/SL CAT TO-2, ALLISON C-4                    | 55 gal. drum                      | Citgo   | Citgard 600 10               | 55        | \$ 7.11 / gal.           | \$ 7.37 / gal.                        | \$ 405.35 / gal.                             |
| 9    | Motor oil for all diesel and gasoline engine service 5W20 CF/SL SM, SJ, ILSAC GF-4                        | 12/1 qt. plastic containers       | Mobil   | Clean 5000 5w-20             | 5000      | \$ 11.75 / gal.          | \$ 12.18 / gal.                       | \$ 60,900.00 / gal.                          |
| 10   | Motor oil for all diesel and gasoline engine service 5W30 CF/SL ILSAC GF-4                                | 12/1 qt. plastic containers       | Mobil   | Clean 5000 5w-30             | 10000     | \$ 2.94 / qt.            | \$ 3.05 / qt.                         | \$ 30,500.00 / qt.                           |
| 11   | Motor oil for all diesel and gasoline engine service 5W30 CF/SL SM, SJ, ILSAC GF-4                        | 55 gal. drum                      | Mobil   | Clean 5000 5w-30             | 550       | \$ 10.96 / gal.          | \$ 11.37 / gal.                       | \$ 6,253.50 / gal.                           |
| 12   | Motor oil for all diesel and gasoline engine service 10W30 CF/SL SM, SJ, ILSAC GF-4                       | 12/1 qt. plastic containers       | Mobil   | Clean 5000 10w-30            | 58000     | \$ 2.94 / qt.            | \$ 3.05 / qt.                         | \$ 176,900.00 / qt.                          |
| 13   | Motor oil for all diesel and gasoline engine service 10W40 CF/SL  | 12/1 qt. plastic containers       | Mobil   | Clean High Mileage 10w-40    | 500       | \$ 2.94 / qt.            | \$ 3.05 / qt.                         | \$ 1,525.00 / qt.                            |
| 14   | Motor oil for all diesel and gasoline engine service 20W50 CF/SL  | 12/1 qt. plastic containers       | No Bid  | No Bid                       | 500       | \$ 0.00 / qt.            | \$ 0.00 / qt.                         | \$ 0.00 / qt.                                |
| 15   | Extreme pressure gear lubricant 80W90 GL-5, MT-1, MACK GO-J   | 35 lb. containers                 | Conoco  | Universal Gear Oil 80w-90    | 280       | \$ 1.42 / lb.            | \$ 1.47 / lb.                         | \$ 411.60 / lb.                              |
| 16   | Extreme pressure gear lubricant 80W90 GL-5, MT-1, MACK GO-J   | 120 lb. containers                | Conoco  | Universal Gear Oil 80w-90    | 3360      | \$ 1.24 / lb.            | \$ 1.29 / lb.                         | \$ 4,334.40 / lb.                            |
| 17   | Extreme pressure gear lubricant 85W140 GL-5, MT-1, MACK GO-J  | 120 lb. containers                | Conoco  | Universal Gear Oil 85w-140   | 720       | \$ 1.24 / lb.            | \$ 1.29 / lb.                         | \$ 928.80 / lb.                              |
| 18   | Extreme pressure gear lubricant mineral gear lube 90 gl-1   | 35 lb. containers                 | Chevron | RPM Gear Oil 90              | 385       | \$ 1.81 / lb.            | \$ 1.88 / lb.                         | \$ 723.80 / lb.                              |
| 19   | Powertrans EW 50 EATON PS-164, R7 MACK GO-A PLUS NAVISTAR TMS 6816  | 35 lb. containers                 | Mobil   | Delvac Syn. Trans. 50        | 350       | \$ 4.03 / lb.            | \$ 4.18 / lb.                         | \$ 1,463.00 / lb.                            |
| 20   | Wheel bearing and chassis grease summer weight NLGI #2  | 14 to 14-1/2oz tubes 10 tube/case | Conoco  | Dynalife HT #2               | 2500      | \$ 1.77 / tube           | \$ 1.84 / tube                        | \$ 4,600.00 / tube                           |
| 21   | Wheel bearing and chassis grease summer weight NLGI #2  | 35 lb. containers                 | Conoco  | Dynalife HT #2               | 245       | \$ 1.84 / lb.            | \$ 1.91 / lb.                         | \$ 467.95 / lb.                              |

PRICING PAGE - OIL 09

VENDOR: *Petroleum Products, Inc.*

| ITEM | DESCRIPTION   | CONTAINERS/<br>PACKAGING                                 | MFR     | BRAND BID                   | EST. QTY. | UNIT PRICE<br>TRUCK LOAD | UNIT PRICE<br>LESS THAN<br>TRUCK LOAD | EXTENDED<br>PRICE LESS<br>THAN TRUCK<br>LOAD |
|------|---|--|---------|-----------------------------|-----------|--------------------------|---------------------------------------|--|
| 22   | Wheel bearing and chassis grease summer weight NLGI #2  | 120 lb. containers                                       | Conoco  | Dynalife HT #2              | 1200      | \$ 1.87 / lb.            | \$ 1.94 / lb.                         | \$ 2,328.00 / lb.                            |
| 23   | All purpose grease (3% molly) water and heat resistant grease NGLI #2                             | 14 to 14-1/2oz tubes 10 tube/case                        | Conoco  | Megaplex XD-3 #2            | 120       | \$ 2.06 / tube           | \$ 2.14 / tube                        | \$ 256.80 / tube                             |
| 24   | All purpose grease (3% molly) water and heat resistant grease NGLI #2                             | 35 lb. containers  | Conoco  | Megaplex XD-3 #2            | 200       | \$ 2.03 / lb.            | \$ 2.11 / lb.                         | \$ 422.00 / lb.                              |
| 25   | All purpose grease (3% molly) water and heat resistant grease NGLI #2                             | 120 lb. containers                                       | Conoco  | Megaplex XD-3 #2            | 240       | \$ 2.17 / lb.            | \$ 2.25 / lb.                         | \$ 540.00 / lb.                              |
| 26   | Hydraulic oil-light weight RO22 Turbine/Circulating Oil   | We can only supply in 55 gal. drums - 5 gal. container   | Chevron | Regal R&O 22                | 45        | \$ 11.46 / gal.          | \$ 11.88 / gal.                       | \$ 534.60 / gal.                             |
| 27   | Hydraulic oil-light weight  | 5 gal. container   | Conoco  | Family Megaflo AW-32        | 45        | \$ 6.58 / gal.           | \$ 6.62 / gal.                        | \$ 306.90 / gal.                             |
| 28   | Hydraulic oil-light weight  | 55 gal. drum   | Conoco  | Family Megaflo AW-32        | 24200     | \$ 5.82 / gal.           | \$ 6.04 / gal.                        | \$ 146,168.00 / gal.                         |
| 29   | Hydraulic oil-medium weight   | 5 gal. container   | Conoco  | Family Megaflo AW-46        | 35        | \$ 6.58 / gal.           | \$ 6.82 / gal.                        | \$ 238.70 / gal.                             |
| 30   | Hydraulic oil-medium weight   | 55 gal. drum   | Conoco  | Family Megaflo AW-46        | 11000     | \$ 5.82 / gal.           | \$ 6.04 / gal.                        | \$ 66,440.00 / gal.                          |
| 31   | Hydraulic oil-heavy weight  | 5 gal. container   | Conoco  | Family Megaflo AW-68        | 200       | \$ 6.32 / gal.           | \$ 6.55 / gal.                        | \$ 1,310.00 / gal.                           |
| 32   | Hydraulic oil-heavy weight  | 55 gal. drum   | Conoco  | Family Megaflo AW-68        | 880       | \$ 5.56 / gal.           | \$ 5.77 / gal.                        | \$ 5,077.60 / gal.                           |
| 33   | Transmission fluid - Multi Vehicle ATF  | 12/1 qt. plastic containers                              | Conoco  | Family Super ATF            | 22000     | \$ 2.28 / qt.            | \$ 2.37 / qt.                         | \$ 52,140.00 / qt.                           |
| 34   | Transmission fluid - Multi Vehicle ATF  | 55 gal. drum   | Conoco  | Family Super ATF            | 495       | \$ 7.87 / gal.           | \$ 8.16 / gal.                        | \$ 4,039.20 / gal.                           |
| 35   | Transmission fluid - TO - 4 fluid   | 5 gal. container   | Conoco  | Powerdrive 30               | 350       | \$ 8.02 / gal.           | \$ 8.32 / gal.                        | \$ 2,912.00 / gal.                           |
| 36   | Transmission fluid - TO - 4 fluid   | 55 gal. drum   | Conoco  | Powerdrive 30               | 605       | \$ 7.27 / gal.           | \$ 7.54 / gal.                        | \$ 4,561.70 / gal.                           |
| 37   | Automatic Transmission Fluid Multi-Vehicle ATF API DEXRON III, MERCON, MERCON V, ATF+3 ATF+4      | 12/1 qt. plastic containers                              | Chevron | Multi-Vehicle ATF           | 1000      | \$ 3.50 / qt.            | \$ 3.63 / qt.                         | \$ 3,630.00 / qt.                            |
| 38   | Combination fluid, combination hydraulic  | 5 gal. container   | Mobil   | Mobilfluid 424              | 250       | \$ 8.89 / gal.           | \$ 9.01 / gal.                        | \$ 2,252.50 / gal.                           |
| 39   | Combination fluid, combination hydraulic  | 55 gal. drum   | Mobil   | Mobilfluid 424              | 20900     | \$ 7.94 / gal.           | \$ 8.23 / gal.                        | \$ 172,007.00 / gal.                         |
| 40   | Railroad diesel engine oil must be a generation 4 oil as designated by (LOMA) EMD approved        | 55 gal. drum (LOMA) generation 4 SAE40- only have 20w-40 | Chevron | Delo 710 LE 20w-40          | 880       | \$ 11.61 / gal.          | \$ 12.04 / gal.                       | \$ 10,595.20 / gal.                          |
| 41   | Synthetic motor oil for gasoline and diesel engines SAE 5W/40 CH-4/SJ                             | 4/1 Gal. - 12/1 qt. plastic containers                   | Chevron | Delo 400 LE Synthetic 5w-40 | 100       | \$ 6.30 / qt.            | \$ 6.53 / qt.                         | \$ 653.00 / qt.                              |
| 42   | Synthesized multipurpose gear lubricant 75W90 DAWA SHADES 256, REV. C, EATON E500, MACK GO J PLUS | 38 lbs - 35-lb. container                                | Mobil   | Delvac Syn. G.O. 75w-90     | 700       | \$ 3.52 / lb.            | \$ 3.65 / lb.                         | \$ 2,555.00 / lb.                            |

PRICING PAGE - OIL 09

VENDOR: *Petroleum Products, Inc.*

| ITEM  | DESCRIPTION   | CONTAINERS/<br>PACKAGING                     | MFG    | BRAND BID                                      | EST. QTY. | UNIT PRICE<br>TRUCK LOAD | UNIT PRICE<br>LESS THAN<br>TRUCK LOAD | EXTENDED<br>PRICE LESS<br>THAN TRUCK<br>LOAD |
|-------|---|--|--------|--|-----------|--------------------------|---------------------------------------|--|
| 43    | Synthesized multipurpose gear lubricant<br>80W/140 DANA SHADES 256, ARVIN MERITOR O-76,<br>MACK GO -J   | 38 lbs. - 35-lb. container                   | Mobil  | Delvac Syn.<br>G.O. 80w-140                    | 140       | \$ 3.58 / lb.            | \$ 3.71 / lb.                         | \$ 519.40 / lb.                              |
| 44    | Synthesized multipurpose gear lubricant<br>75W/90 DANA SHADES 256, REV C, EATON E500,<br>MACK GO-J PLUS | 105 lb. - 120-lb. container                  | Mobil  | Delvac Syn.<br>G.O. 75w-90                     | 120       | \$ 3.41 / lb.            | \$ 3.54 / lb.                         | \$ 424.80 / lb.                              |
| 45    | Limited slip gear lubricant<br>80W/90 GL-5  | 35 lb. container                             | No Bid | We do not have<br>a supply in 35<br>lb. pails. | 770       | \$ / lb.                 | \$ / lb.                              | \$ 0.00 / lb.                                |
| 46    | Limited slip gear lubricant<br>80W/90 GL-5  | 120 lb. container                            | Mobil  | Mobilube HD<br>80w-90 LS                       | 1080      | \$ 1.84 / lb.            | \$ 1.91 / lb.                         | \$ 2,062.80 / lb.                            |
| 47    | Motor oil for all diesel and gasoline engine<br>service<br>5W/20<br>CF/SL<br>SM, ILSAC GF-4             | 55 gal. drum                                 | Mobil  | Clean 5000 5w-<br>20                           | 1300      | \$ 11.14 / gal.          | \$ 11.55 / gal.                       | \$ 15,015.00 / gal.                          |
| 48    | Transmission fluid - Dexron -VI-ATF   | 12/1 case- 6/4-qt- Plastic<br>Containers     | Mobil  | Dexron VI ATF                                  | 120       | \$ 13.67 / gal.          | \$ 14.17 / gal.                       | \$ 1,700.40 / gal.                           |
| 49    | TES - 295 Alison TES Fluid  | 4/1 gal. case- 6/4-qt-<br>Plastic Containers | Mobil  | Delvac Synthetic<br>ATF                        | 30        | \$ 35.56 / gal.          | \$ 36.87 / gal.                       | \$ 1,106.10 / gal.                           |
| Total |   |  |        |  |           |                          |                                       | \$1,266,666.90                               |

NOTE: DELIVERY: PRODUCTS WILL BE RECEIVED WITHIN 5 DAYS AFTER RECEIPT OF ORDER. (ARO)

DEPOSIT AND CREDIT FOR RETURNABLE 55 GAL DRUMS: N/A EACH.

LOCATION OF WAREHOUSES FROM WHICH SHIPMENT CAN BE MADE:

- Nitro, WV \_\_\_\_\_
- Beckley, WV \_\_\_\_\_
- Logan, WV \_\_\_\_\_
- Bluefield, WV \_\_\_\_\_

Morgantown, WV \_\_\_\_\_

CONTRACT COORDINATOR: David Martin  
 PHONE: (304) 204-1914  
 TOLL FREE #: (866) 774-4645  
 FAX: (304) 744-3792  
 EMAIL: dmartin@maxumpetroleum.com

NAME (Type): David L. Martin  
 SIGNATURE: *David Martin*  
 TITLE: Internal Sales Manager  
 DATE: September 21, 2010



State of West Virginia  
 Department of Administration  
 Purchasing Division  
 2019 Washington Street East  
 Post Office Box 50130  
 Charleston, WV 25305-0130

# Request for Quotation

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| RFQ NUMBER |
| OIL10      |

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| ADDRESS CORRESPONDENCE TO ATTENTION OF |
| JO ANN ADKINS<br>304-558-8802          |

VENDOR

\*709035119      304-926-3000  
 PETROLEUM PRODUCTS INC  
 PURGE NEXT CYCLE  
 BELLE WV 25015

SHIP TO

ALL STATE AGENCIES  
 AND POLITICAL SUBDIVISIONS  
 VARIOUS LOCALES AS INDICATED  
 BY ORDER

| DATE PRINTED | TERMS OF SALE | SHIP VIA       | F.O.B.    | FREIGHT TERMS |
|--------------|---------------|----------------|-----------|---------------|
| 08/25/2010   | NET 30 DAYS   | Overseas / UPS | Delivered |               |

BID OPENING DATE: 09/21/2010      BID OPENING TIME 01:30PM

| LINE  | QUANTITY | UOP | CAT NO | ITEM NUMBER | UNIT PRICE | AMOUNT |
|---|----------|-----|--------|-------------|------------|--------|
| ***** ADDENDUM NO. 1 *****  |          |     |        |             |            |        |
| MANDATORY PRE-BID   |          |     |        |             |            |        |
| <p>A MANDATORY PRE-BID WILL BE HELD ON THURSDAY, SEPTEMBER 9, 2010 @ 10:00AM AT 2019 WASHINGTON ST.E., CHARLESTON, WV 25305 IN THE PURCHASING DIVISION CONFERENCE ROOM. ALL INTERESTED PARTIES ARE REQUIRED TO ATTEND THIS MEETING. FAILURE TO ATTEND THE MANDATORY PRE-BID SHALL RESULT IN DISQUALIFICATION OF THE BID. NO ONE PERSON MAY REPRESENT MORE THAN ONE BIDDER.</p> <p>AN ATTENDANCE SHEET WILL BE MADE AVAILABLE FOR ALL POTENTIAL BIDDERS TO COMPLETE. THIS WILL SERVE AS THE OFFICIAL DOCUMENT VERIFYING ATTENDANCE AT THE MANDATORY PRE-BID. FAILURE TO PROVIDE YOUR COMPANY AND REPRESENTATIVE NAME ON THE ATTENDANCE SHEET WILL RESULT IN DISQUALIFICATION OF THE BID. THE STATE WILL NOT ACCEPT ANY OTHER DOCUMENTATION TO VERIFY ATTENDANCE. THE BIDDER IS RESPONSIBLE FOR ENSURING THEY HAVE COMPLETED THE INFORMATION REQUIRED ON THE ATTENDANCE SHEET. THE PURCHASING DIVISION AND THE STATE AGENCY WILL NOT ASSUME ANY RESPONSIBILITY FOR A BIDDER'S FAILURE TO COMPLETE THE PRE-BID ATTENDANCE SHEET. IN ADDITION, WE REQUEST THAT ALL POTENTIAL BIDDERS INCLUDE THEIR E-MAIL ADDRESS AND FAX NUMBER.</p> <p>ALL POTENTIAL BIDDERS ARE REQUESTED TO ARRIVE PRIOR TO THE STARTING TIME FOR THE PRE-BID. BIDDERS WHO ARRIVE LATE, BUT PRIOR TO THE DISMISSAL OF THE TECHNICAL PORTION OF THE PRE-BID WILL BE PERMITTED TO SIGN IN. BIDDERS WHO ARRIVE AFTER CONCLUSION OF THE TECHNICAL</p> |          |     |        |             |            |        |

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

|           |                        |           |                |                                   |         |
|-----------|------------------------|-----------|----------------|-----------------------------------|---------|
| SIGNATURE | <i>David Smith</i>     | TELEPHONE | (304) 204-1914 | DATE                              | 9/21/10 |
| TITLE     | INTERNAL SALES MANAGER | FEIN      | 550253577      | ADDRESS CHANGES TO BE NOTED ABOVE |         |

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'



State of West Virginia  
 Department of Administration  
 Purchasing Division  
 2019 Washington Street East  
 Post Office Box 50130  
 Charleston, WV 25305-0130

# Request for Quotation

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| ADDRESS-CORRESPONDENCE TO ATTENTION OF |
| JO ANN ADKINS<br>304-558-8802          |

VENDOR

\*709035119      304-926-3000  
 PETROLEUM PRODUCTS INC  
 PURGE NEXT CYCLE  
 BELLE WV 25015

SHIP TO

ALL STATE AGENCIES  
 AND POLITICAL SUBDIVISIONS  
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 BY ORDER

| DATE PRINTED | TERMS OF SALE | SHIP VIA         | F.O.B.    | FREIGHT TERMS |
|--------------|---------------|------------------|-----------|---------------|
| 08/25/2010   | NET 30 DAYS   | Over Truck / UPS | DELIVERED |               |

BID OPENING DATE: 09/21/2010      BID OPENING TIME 01:30PM

| LINE  | QUANTITY | UOP | CAT NO. | ITEM NUMBER | UNIT PRICE | AMOUNT         |
|---|----------|-----|---------|-------------|------------|----------------|
| PORTION OF THE PRE-BID, BUT DURING ANY SUBSEQUENT PART OF THE PRE-BID WILL NOT BE PERMITTED TO SIGN THE ATTENDANCE SHEET. |          |     |         |             |            |                |
| ***** END OF ADDENDUM NO. 1 *****   |          |     |         |             |            |                |
| 0001  | 1        | LS  |         | 405-39      |            |                |
| LUBRICANTS, OIL AND GREASES   |          |     |         |             |            |                |
| ***** THIS IS THE END OF RFQ OIL10 ***** TOTAL:   |          |     |         |             |            | \$1,244,446.90 |

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

|           |                               |           |                |                                   |         |
|-----------|-------------------------------|-----------|----------------|-----------------------------------|---------|
| SIGNATURE | <i>David D... [Signature]</i> | TELEPHONE | (304) 204-1914 | DATE                              | 9/21/10 |
| TITLE     | INTERNAL SALES MANAGER        | FEIN      | 550253577      | ADDRESS CHANGES TO BE NOTED ABOVE |         |

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'





State of West Virginia  
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| ADDRESS CORRESPONDENCE TO ATTENTION OF: |
| JO ANN ADKINS<br>304-558-8802           |

\*709035119      304-926-3000

PROCUREMENT

Petroleum Products Inc.  
 David Martin  
 PO BOX 459  
 Nitro, WV 25143

SHIP TO

ALL STATE AGENCIES  
 AND POLITICAL SUBDIVISIONS  
 VARIOUS LOCALES AS INDICATED  
 BY ORDER

| DATE PRINTED | TERMS OF SALE | SHIP VIA         | F.O.B.    | FREIGHT TERMS |
|--------------|---------------|------------------|-----------|---------------|
| 09/12/2010   | NET 30 DAYS   | Over Truck / UPS | Delivered |               |

BID OPENING DATE: **09/21/2010**      BID OPENING TIME: **01:30PM**

| LINE   | QUANTITY | UOP | CAT. NO. | ITEM NUMBER | UNIT PRICE | AMOUNT |
|--|----------|-----|----------|-------------|------------|--------|
| <p>***** ADDENDUM NO. 2 *****</p> <p>1. MANDATORY PRE-BID SIGN-IN SHEETS ATTACHED.</p> <p>2. ALL ORDERS THAT TOTAL \$250.00 OR MORE MUST BE SHIPPED F.O.B. DESTINATION. ORDERS LESS THAN \$250.00 MAY BE OBTAINED BY THE AGENCY USING ALTERNATIVE PROCUREMENT METHODS. IF THE AGENCY CHOOSE TO ORDER LESS THAN \$250.00 ANY TRANSPORTATION COSTS WILL BE INVOICED AS A SEPARATE CHARGE WITH THE ORIGINAL FREIGHT BILL ATTACHED TO THE INVOICE.</p> <p>AGENCIES MAY MAKE SMALL PURCHASES (UNDER \$250.00) FROM A LOCAL SOURCE IF PRICING INCLUDES DELIVERY AND A SAVINGS RESULTS.</p> <p>NOTE: AGENCIES ARE NOT PERMITTED TO STRING ORDERS TO CIRCUMVENT PURCHASING POLICY.</p> <p>EXHIBIT 6</p> <p>PRICE ADJSUTMENT PROVISION:<br/>         THE STATE OF WEST VIRGINIA WILL CONSIDER BIDS THAT CONTAIN PROVISIONS FOR PRICE ADJUSTMENTS PRIOR TO THE ORIGINAL EXPIRATION OF THE CONTRACT, PROVIDED THAT SUCH PRICE ADJUSTMENT COVERS BOTH UPWARD AND DOWNWARD MOVEMENT OF THE COMMODITY PRICE, AND THAT ADJUSTMENT IS BASED ON THE "PASS THROUGH: INCREASE OR DECREASE OF RAW MATERIALS AND/OR LABOR, WHICH MAKE UP ALL OR A SUBSTANTIAL PART OF THE PRODUCT. ADJUSTMENTS ARE TO BE BASED UPON AN ACTUAL DOLLAR FIGURE, NOT A PERCENTAGE. ALL PRICE ADJUSTMENT REQUEST MUST BE SUBSTANTIATED IN MANNER ACCEPTABLE TI THE DIRECTOR PURCHASING, E.G.</p> |          |     |          |             |            |        |

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

|                                       |                             |                                   |
|---------------------------------------|-----------------------------|-----------------------------------|
| SIGNATURE<br><i>David Martin</i>      | TELEPHONE<br>(304) 204-1914 | DATE<br>9-21-10                   |
| TITLE<br><i>Interim Sales Manager</i> | FEIN<br>550253577           | ADDRESS CHANGES TO BE NOTED ABOVE |

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'



State of West Virginia  
 Department of Administration  
 Purchasing Division  
 2019 Washington Street East  
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# Request for Quotation

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| ADDRESS CORRESPONDENCE TO ATTENTION OF |
| JO ANN ADKINS<br>304-558-8802          |

PURCHASING

\*709035119      304-926-3000  
 PETROLEUM PRODUCTS INC  
 PURGE NEXT CYCLE  
 BELLE WV 25015

SHIP TO

ALL STATE AGENCIES  
 AND POLITICAL SUBDIVISIONS  
 VARIOUS LOCALES AS INDICATED  
 BY ORDER

| DATE PRINTED | TERMS OF SALE | SHIP VIA  | F.O.B.    | FREIGHT TERMS |
|--------------|---------------|-----------|-----------|---------------|
| 09/12/2010   | NET 30 DAYS   | TRUCK/UPS | DELIVERED |               |

BID OPENING DATE: 09/21/2010      BID OPENING TIME 01:30PM

| LINE  | QUANTITY | UOP | CAT. NO. | ITEM NUMBER | UNIT PRICE | AMOUNT |
|---|----------|-----|----------|-------------|------------|--------|
| <p>GOVERNMENTAL BENCH MARKS, GENERAL MARKET INCREASE, PUBLISHED PRICE LISTS. SUCH REQUESTS FOR AN INCREASE SHOULD BE RECEIVED IN WRITING BY THE DIRECTOR OF PURCHASING AT LEAST 30 DAYS IN ADVANCE OF THE EFFECTIVE DATE OF THE INCREASE. ANY TIME THE VENDOR REQUESTS A PRICE ADJUSTMENT, THE PURCHASING DIVISION MAY EITHER ACCEPT THE PRICE ADJUSTMENT AND AMEND THE CONTRACT ACCORDINGLY OR REJECT THE ADJUSTMENT IN ITS ENTIRETY AND CANCEL THE CONTRACT.</p> <p>PREFERRED TERMS:<br/>           IT IS PREFERRED THAT THE PRICES ON THIS CONTRACT ARE FIRM FOR LIFE OF THE CONTRACT, AS INDICATED IN THE LIFE OF CONTRACT CLAUSE CONTAINED HEREIN, NOT TO EXCEED ONE (1) YEAR.</p> <p>IF THE VENDOR CANNOT GUARANTEE A FIRM PRICE FOR THE LIFE OF THE CONTRACT, HE MUST INDICATE ONE OF THE PARAGRAPHS LISTED BELOW. FAILURE TO QUALIFY THE PREFERRED TERMS WILL BIND THE VENDOR TO A FIRM PRICE FOR THE LIFE OF THE CONTRACT.</p> <p>ALTERNATE TERMS:<br/>           (X) THE PRICES ON THIS CONTRACT WILL REMAIN FIRM FOR 90 DAYS AFTER THE EFFECTIVE DATE OF THE CONTRACT. PRICES WILL REMAIN FIRM AFTER EACH PRICE ADJUSTMENT FOR A MINIMUM OF 90 DAYS.</p> <p>3. ITEMS 33 AND 34 CONVENTIONAL ATF MERCONIII/DEXRON</p> |          |     |          |             |            |        |

|   |                             |                                   |  |
|---|-----------------------------|-----------------------------------|--|
| SEE REVERSE SIDE FOR TERMS AND CONDITIONS |                             |                                   |  |
| SIGNATURE<br><i>David L. Mount</i>        | TELEPHONE<br>(304) 204-1914 | DATE<br>9/21/10                   |  |
| TITLE<br>INTERNAL SALES MANAGER           | FEIN<br>550253577           | ADDRESS CHANGES TO BE NOTED ABOVE |  |

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'



State of West Virginia  
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# Request for Quotation

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| ADDRESS CORRESPONDENCE TO ATTENTION OF: |
| JO ANN ADKINS<br>304-558-8802           |

VENDOR

\*709035119      304-926-3000  
 PETROLEUM PRODUCTS INC  
 PURGE NEXT CYCLE  
 BELLE WV 25015

SHIP TO

ALL STATE AGENCIES  
 AND POLITICAL SUBDIVISIONS  
 VARIOUS LOCALES AS INDICATED  
 BY ORDER

|              |               |                 |           |               |
|--------------|---------------|-----------------|-----------|---------------|
| DATE PRINTED | TERMS OF SALE | SHIP VIA        | F.O.B.    | FREIGHT TERMS |
| 09/12/2010   | NET 30 DAYS   | OUR TRUCK / UPS | DELIVERED |               |

BID OPENING DATE: 09/21/2010      BID OPENING TIME 01:30PM

| LINE                         | QUANTITY                    | UOP | CAT. NO. | ITEM NUMBER | UNIT PRICE | AMOUNT                            |
|------------------------------|-----------------------------|-----|----------|-------------|------------|-----------------------------------|
| 0001                         | 1                           | LS  |          | 405-39      |            |                                   |
|                              | LUBRICANTS, OIL AND GREASES |     |          |             |            |                                   |
| ***** THIS IS THE END OF RFQ |                             |     |          |             |            | OIL10 ***** TOTAL: \$1,246,666.90 |

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

|                              |                          |              |
|------------------------------|--------------------------|--------------|
| SIGNATURE <i>David Smith</i> | TELEPHONE (304) 204-1914 | DATE 9/21/10 |
|------------------------------|--------------------------|--------------|

|                                     |                |                                   |
|-------------------------------------|----------------|-----------------------------------|
| TITLE <i>INTERNAL SALES MANAGER</i> | FEIN 550253577 | ADDRESS CHANGES TO BE NOTED ABOVE |
|-------------------------------------|----------------|-----------------------------------|

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'

**SIGN IN SHEET**

**Request for Proposal No. OIL10**

PLEASE PRINT

\* PLEASE BE SURE TO PRINT LEGIBLY - IF POSSIBLE, LEAVE A BUSINESS CARD

| FIRM & REPRESENTATIVE NAME                          | MAILING ADDRESS                 | TELEPHONE & FAX NUMBERS        |
|---|---------------------------------|--------------------------------|
| Company: <u>D-A LUBRICANT Co.</u>                   | <u>260 PEACH ST. HAZARD, KY</u> | PHONE <u>317-946-0573</u>      |
| Rep: <u>BRIAN BLAIR</u>                             | <u>41701</u>                    | TOLL FREE <u>800-645-5823</u>  |
| Email Address: <u>bblair@dalube.com</u>             | <u>FAX 606-439-3613</u>         | FAX <u>317-923-3884</u>        |
| Company: <u>MATTHEWS LUBRICANTS</u>                 | <u>RT 50 West</u>               | PHONE <u>304-623-3361</u>      |
| Rep: <u>DAN ROBey</u>                               | <u>CLARKSBURG WV 26302</u>      | TOLL FREE <u>1800 424-3361</u> |
| Email Address: <u>drobey@matthewslubricants.com</u> |                                 | FAX <u>304-623-3364</u>        |
| Company: _____                                      |                                 | PHONE _____                    |
| Rep: _____  |                                 | TOLL FREE _____                |
| Email Address: _____                                |                                 | FAX _____                      |
| Company: _____                                      |                                 | PHONE _____                    |
| Rep: _____  |                                 | TOLL FREE _____                |
| Email Address: _____                                |                                 | FAX _____                      |
| Company: _____                                      |                                 | PHONE _____                    |
| Rep: _____  |                                 | TOLL FREE _____                |
| Email Address: _____                                |                                 | FAX _____                      |

SIGN IN SHEET

Request for Proposal No. OIL10

PLEASE PRINT

Date: September 9, 2010

\* PLEASE BE SURE TO PRINT LEGIBLY - IF POSSIBLE, LEAVE A BUSINESS CARD

| FIRM & REPRESENTATIVE NAME                    | MAILING ADDRESS                   | TELEPHONE & FAX NUMBERS               |
|---|-----------------------------------|---------------------------------------|
| Company: <u>PETROLEUM PRODUCTS, Inc.</u>      | <u>PO Box 459 Nitro, WV 25143</u> | PHONE <u>(304) 204-1914</u>           |
| Rep: <u>DAVID MARTIN</u>                      |                                   | TOLL FREE <u>(304) (866) 774-4645</u> |
| Email Address: <u>dmartin@mexunupetro.com</u> |                                   | FAX <u>(304) 755-3792</u>             |
| Company: <u>Apollo Oil, LLC</u>               | <u>1175 Early Drive</u>           | PHONE <u>304 722 6900</u>             |
| Rep: <u>Dale Hardwick</u>                     | <u>Winchester, Ky 40391</u>       | TOLL FREE <u>888 722 6900</u>         |
| Email Address: <u>dhardwick@apollooil.com</u> |                                   | FAX <u>304 722 6972</u>               |
| Company: <u>HARRIS OIL CO. INC.</u>           |                                   | PHONE <u>304-927-2470</u>             |
| Rep: <u>Wayne Harris</u>                      | <u>P.O. Box 685</u>               | TOLL FREE                             |
| Email Address: <u>wharris@harrisoil.com</u>   | <u>SPENCER, W.V. 25276</u>        | FAX <u>304-927-4972</u>               |
| Company:                                      |                                   | PHONE                                 |
| Rep:  |                                   | TOLL FREE                             |
| Email Address:                                |                                   | FAX                                   |
| Company:                                      |                                   | PHONE                                 |
| Rep:  |                                   | TOLL FREE                             |
| Email Address:                                |                                   | FAX                                   |

CITGO SUPERGARD® AIR-COOLED  
2-CYCLE ENGINE OIL



Date 01/10

**DESCRIPTION:** CITGO SUPERGARD Air Cooled 2-Cycle Engine Oil is a premium performance synthetic blend lubricant designed for use in high performance air-cooled two-stroke engines.

**QUALITIES:** SUPERGARD Air Cooled 2-Cycle Engine Oil is engineered for lower smoke and advanced protection for air cooled 2-cycle engines. This synthetic blend formula meets or exceeds the rigorous requirements of the API TC, JASO FD and ISO EGD classifications for 2-cycle air-cooled engine oils and also exceeds the performance requirements for JASO FA, JASO FB, ISO-L-EGB, and ISO-L-EGC. This advanced oil helps to protect today's high RPM air cooled 2-cycle engines against exhaust port blocking, combustion chamber and piston deposits, ring sticking and scuffing, and wear.

SUPERGARD Air Cooled 2-Cycle Engine Oil is formulated with premium base oils and a new low ash additive package that provides excellent lubricity and detergency performance which surpasses the standard for preventing piston and combustion chamber deposits. In addition, SUPERGARD Air-Cooled 2-Cycle Engine Oil is a synthetic blend which reduces exhaust smoke and prevents piston seizure and cylinder scuffing. SUPERGARD Air Cooled 2-Cycle Engine Oil mixes readily with fuel for pre-mix type, even at low temperatures.

**APPLICATIONS:** CITGO SUPERGARD Air Cooled 2-Cycle Engine Oil is recommended for use in air-cooled, 2-cycle applications where an API TC, JASO FD, and ISO EGD product is preferred. This oil supercedes previous JASO and ISO specifications. It can be used in either premix or oil injection systems up to 50:1 fuel to oil ratios. It may also be used in certain motorcycle engines which are liquid cooled. Do not use in engines requiring an NMMA® TC-W3®, TC-WII®, or TC-W® product.

SUPERGARD Air Cooled 2-Cycle Engine Oil can be used in motorcycles, generators, lawnmowers, and hand held power equipment such as leaf blowers, trimmers, and chainsaws operating in hot, dirty, dusty environments and high loads for extended periods. SUPERGARD Air Cooled 2-Cycle Engine Oil provides the necessary protection to keep your air-cooled 2-stroke cycle engine running cleaner, longer and with less smoke.

**TYPICAL PROPERTIES:**

**CITGO SUPERGARD® AIR-COOLED 2-CYCLE ENGINE OIL**

|  |           |
|--|-----------|
| Material Code                            | 621611001 |
| Gravity, ASTM D 4052, °API               | 32.0      |
| Density, lb/gal, at 60°F                 | 7.21      |
| Flash Point, PMCC, ASTM D 93, °F (°C)    | 185 (85)  |
| COG, ASTM D 92, °F (°C)                  | 203 (95)  |
| Viscosity, ASTM D 445, cSt at 40°C       | 55        |
| cSt at 100°C                             | 8.5       |
| ASTM D 2161, SUS at 100°F                | 281       |
| SUS at 210°F                             | 54.8      |
| Viscosity Index, ASTM D 2270             | 129       |
| Pour Point, ASTM D 97, °F (°C)           | -49 (-45) |
| Appearance, Color                        | Purple    |
| Sulfated Ash, ASTM D 874, %              | 0.1       |
| Total Base Number, ASTM D 2896, mg KOH/g | 2.2       |



## **XHP™ 2-Cycle Engine Oil**

Conoco® XHP 2-Cycle Engine Oil is a high-quality, ashless detergent engine oil specially designed for use in water-cooled and most air-cooled 2-stroke cycle engines. It is TC-W3® certified by the National Marine Manufacturers Association (NMMA), and also meets API TC and JASO FB performance requirements for use in air-cooled 2-stroke cycle engines. It may be used in either direct oil injection or premix engines.

XHP 2-Cycle Engine Oil is formulated to minimize piston ring sticking and exhaust port deposits to maintain good power output in 2-stroke cycle engines. It also protects against piston and cylinder scuffing and helps reduce spark plug fouling and preignition problems. It provides rust and corrosion protection in service and during storage. It is pre-diluted with a high-flash solvent for easy mixing with gasoline at low temperatures for premix applications.

### **Applications**

- Outboard marine engines
- Personal watercraft
- Motorcycles, scooters and all-terrain vehicles (ATVs)
- Snowmobiles
- Low-output chain saws
- Lawn-care equipment (mowers, weed trimmers, leaf blowers)

XHP 2-Cycle Engine Oil meets or exceeds the requirements of:

- NMMA TC-W3® (Certification No. RL 26639G), TC-WII® (obsolete), TC-W® (obsolete)
- API Service TC
- JASO FB

### **Features/Benefits**

- Ashless dispersant/detergent formulation helps minimize engine deposits and preignition
- Minimizes piston ring sticking and helps reduce exhaust port blocking
- Protects against piston and cylinder scuffing
- Excellent lubricity for use in high-output outboard engines
- Reduces spark plug fouling
- Excellent rust and corrosion protection
- Keeps engine parts clean

**Ashless Engine Oil  
For 2-Stroke Cycle  
Engines, NMMA  
TC-W3® Certified**

**U.S. Technical  
Services Hot Line:  
1-800-255-9556**

**U.S. Customer  
Service:  
1-800-640-1956**

**International:  
+1-832-486-3363**

**E-mail address:  
conocolubricants@  
conocophilips.com**

***www.lubes.conoco.com***

**600 N. Dairy Ashford • 2W9000 • Houston, TX 77079**



- Mixes easily with gasoline at low temperatures for premix applications
- Dyed for easy visibility when mixed with gasoline
- Suitable for either direct oil injection or premix engines<sup>(1)</sup>

<sup>(1)</sup> **Note:** For premix engines, always follow the manufacturer's recommendation for choosing the proper fuel-to-oil mixing ratio.

### XHP™ 2-Cycle Engine Oil

#### Typical Properties

|                               |           |
|-------------------------------|-----------|
| Specific Gravity @ 60°F       | 0.876     |
| Density, lbs/gal @ 60°F       | 7.30      |
| Color, Visual                 | Blue      |
| Flash Point (COC), °C (°F)    | 114 (237) |
| Flash Point (PMCC), °C (°F)   | 95 (203)  |
| Pour Point, °C (°F)           | -45 (-49) |
| Viscosity, Kinematic          |           |
| cSt @ 40°C                    | 45.7      |
| cSt @ 100°C                   | 7.9       |
| Viscosity Index               | 143       |
| Sulfated Ash, ASTM D874, wt % | Nil       |

#### Health and Safety Information

For recommendations on safe handling and use of this product, please refer to the Material Safety Data Sheet via <http://w3.conocophillips.com/NetMSDS>.

Typical properties are average values only and do not constitute a specification. Minor variations that do not affect product performance are to be expected during normal manufacture, and at different blending locations. Product formulations are subject to change without notification.

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## Conoco HD Fleet® Engine Oil

Conoco HD Fleet Engine Oil is a high-quality diesel engine oil designed primarily for use in high-output, 2-stroke cycle diesel engines. It is formulated to provide excellent wear protection, to minimize the formation of sludge and varnish, to protect against rust and bearing corrosion, and to resist foaming. Its low ash content helps minimize the formation of ash deposits on valve seats and faces, and helps keep intake ports clear to maintain good power output.

HD Fleet Engine Oils SAE 30, 40 and 50 meet or exceed the requirements of API Service Categories CF-2 and CF, and also may be used in applications where API CD quality oils are specified. They are particularly recommended for use in Detroit Diesel 2-stroke cycle diesel engines in transit buses and marine fleets running on low-sulfur diesel fuel. They also may be used in some heavy-duty commercial transmissions.

HD Fleet Engine Oils SAE 10W and 20W-20 are intended for use in the hydraulic systems and hydrostatic transmissions of Caterpillar and other off-highway construction equipment. They are not recommended for use in engines.

### **Applications**

- 2-stroke cycle diesel engines in bus fleets and marine fleets
- Off-highway trucks, heavy equipment and farm equipment
- Some heavy-duty commercial transmissions
- Hydraulic systems of Caterpillar and other off-highway equipment

HD Fleet Engine Oil meets or exceeds the requirements of:

- API Service CF-2, CF (SAE 30, 40, 50)
- Caterpillar hydraulic oil for hydraulic systems and some hydrostatic transmissions (SAE 10W, 20W-20, 30)
- Detroit Diesel 2-Stroke Cycle Engines, Oil Type 1 (1.0% Sulfated Ash, max.) (SAE 40)
- ArvinMeritor, Dana Spicer and Eaton Fuller Transmissions (SAE 30, 40, 50)

**Heavy-Duty  
Diesel Engine Oil**

**U.S. Technical  
Services Hot Line:  
1-800-255-9556**

**U.S. Customer  
Service:  
1-800-640-1956**

**International:  
+1-832-486-3363**

**E-mail address:  
[conocolubricants@  
conocophillips.com](mailto:conocolubricants@conocophillips.com)**

**[www.lubes.conoco.com](http://www.lubes.conoco.com)**

600 N. Dairy Ashford • 2W9000 • Houston, TX 77079



### Features/Benefits

- Low-ash content minimizes the formation of ash deposits and helps keep intake ports clean
- Protects against sludge and varnish formation
- Protects against scuffing and wear
- Protects against rust and bearing corrosion
- Good resistance to foaming and aeration

### HD Fleet® Engine Oil

#### Typical Properties

| SAE Grade                                  | 10W       | 20W-20    | 30        | 40        | 50        |
|--|-----------|-----------|-----------|-----------|-----------|
| Density, g/cm <sup>3</sup> @ 15.6°C (60°F) | 0.872     | 0.875     | 0.879     | 0.882     | 0.890     |
| Color, ASTM D1500                          | L 2.5     | 4.0       | L 4.0     | 4.0       | 4.0       |
| Flash Point (PMCC), °C (°F)                | 198 (388) | 207 (405) | 194 (381) | 210 (410) | 207 (405) |
| Pour Point, °C (°F)                        | -39 (-39) | -36 (-33) | -33 (-27) | -27 (-17) | -27 (-17) |
| Viscosity,                                 |           |           |           |           |           |
| cSt @ 40°C                                 | 48.0      | 72.0      | 88.0      | 149       | 210       |
| cSt @ 100°C                                | 7.5       | 8.5       | 11.0      | 15.4      | 20.0      |
| SUS @ 100°F                                | 246       | 375       | 456       | 780       | 1,103     |
| SUS @ 210°F                                | 51.4      | 54.9      | 63.9      | 81.3      | 101       |
| Viscosity Index                            | 122       | 116       | 109       | 106       | 104       |
| Cold Cranking Viscosity, cP                | 5,900     | 3,500     | ---       | ---       | ---       |
| @ (°C)                                     | (-25)     | (-15)     |           |           |           |
| High-Temp/High-Shear Viscosity, cP @ 150°C | ---       | ---       | 3.4       | 4.3       | 5.1       |
| Sulfated Ash, ASTM D874, wt %              | 0.94      | 0.94      | 1.0       | 1.0       | 1.0       |
| Total Base Number (TBN), ASTM D2896        | 7.5       | 7.5       | 8.1       | 8.1       | 8.1       |
| Zinc, wt %                                 | 0.103     | 0.103     | 0.112     | 0.112     | 0.112     |

### Health and Safety Information

For recommendations on safe handling and use of this product, please refer to the Material Safety Data Sheet via <http://w3.conocophillips.com/NetMSDS>.

Due to continual product research and development, the information contained herein is subject to change without notification.

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## Fleet Supreme EC™ Engine Oil

Fleet Supreme EC™ (Emission Compatible) is an API CJ-4 universal fleet engine oil developed for use in 4-stroke cycle diesel engines designed to meet 2007 on-highway exhaust emission standards. It is specially formulated to protect exhaust after-treatment devices, such as diesel particulate filters (DPFs) and diesel oxidation catalysts (DOCs). It also is backward serviceable for use in pre-2007 diesel engines where API CI-4 PLUS, CI-4, CH-4, CG-4 or CF-4 oils are specified.

Fleet Supreme EC™ is designed for use in mixed fleets with both on-highway and off-road equipment operating in varying climates and under varying loads and service conditions. It has excellent soot dispersancy to protect against soot-induced oil thickening and abrasive wear, and excellent oxidation resistance to help minimize deposit formation. The low-ash formulation is designed for compatibility with all exhaust emission control systems in modern diesel engines and to help prolong DPF life.

Fleet Supreme EC™ meets or exceeds the requirements of API CJ-4, CI-4 PLUS, CI-4, CH-4, CG-4, CF-4 and SM. It is approved under the latest OEM specifications from Caterpillar, Cummins, Detroit Diesel, Mack, Mercedes and Volvo for use in their 2007 low-emissions engines. It is formulated for use in diesel engines operating on diesel fuels with sulfur content up to 500 ppm. However, for applications not using Ultra-Low Sulfur Diesel (ULSD), consult the engine manufacturer for recommended service interval.

### **Applications**

- On-highway diesel trucks equipped with exhaust aftertreatment devices, such as diesel particulate filters and oxidation catalysts
- Diesel engines equipped with EGR, ACERT or other emissions control technologies
- Older diesel equipment with conventional, non-EGR engines
- Off-highway construction, earth moving and mining equipment
- Mixed fleets with diesel and gasoline-fueled vehicles

Fleet Supreme EC meets or exceeds the requirements of:

- API Service CJ-4, CI-4 PLUS/CI-4, CH-4, CG-4, CF-4, SM
- ACEA E7-04
- Caterpillar ECF-3
- Cummins CES 20081
- Detroit Diesel Power Guard 93K218
- Mack EO-O Premium Plus
- Mercedes-Benz Sheet 228.3
- Volvo VDS-4

**API CJ-4 Diesel  
Engine Oil For Low-  
Emission Engines**

### **Contact Information**

**U.S. Customer  
Service:  
1-800-822-6457**

**U.S. Technical  
Services Hot line:  
1-800-766-0050**

**International:  
+1-832-486-3363**

**E-mail address:  
lubricants@  
conocophillips.com**

<http://lubricants.conocophillips.com>

600 N. Dairy Ashford • 2W9000 • Houston, TX 77079



### Features/Benefits

- Excellent protection for new 2007 emissions-compliant engines and older diesel engines
- Specially formulated to protect exhaust after-treatment devices
- Protects against particulate filter plugging
- Excellent soot control for protection against abrasive wear and soot-induced oil thickening
- Excellent resistance to viscosity and thermal breakdown at high temperatures
- Protects against sludge and varnish formation
- Protects against wear
- Protects against rust and bearing corrosion
- Good resistance to foaming and aeration

### Fleet Supreme EC™ Engine Oil

#### Typical Properties

|  |   |
|--|---|
| <b>SAE Grade</b>                           | <b>15W-40</b>                                     |
| <b>API Service</b>                         | <b>CJ-4, CI-4 PLUS/CI-4, CH-4, CG-4, CF-4, SM</b> |
| Density, g/cm <sup>3</sup> @ 15.6°C (60°F) | 0.879   |
| Color, ASTM D1500                          | L 4.0   |
| Flash Point (COC), °C (°F)                 | 227 (441)   |
| Pour Point, °C (°F)                        | -38 (-36)   |
| Viscosity,                                 |   |
| cSt @ 40°C                                 | 117   |
| cSt @ 100°C                                | 15.3  |
| SUS @ 100°F                                | 603   |
| SUS @ 210°F                                | 80.8  |
| Viscosity Index                            | 137   |
| Cold Cranking Viscosity, cP @ (°C)         | 6,600 (-20)                                       |
| High-Temp/High-Shear Viscosity, cP @ 150°C | 4.3   |
| Sulfated Ash, ASTM D874, wt %              | 0.97  |
| Total Base Number (TBN), ASTM D2896        | 8.4   |
| Zinc, wt %                                 | 0.121   |

### Health and Safety Information

For recommendations on safe handling and use of this product, please refer to the Material Safety Data Sheet via <http://w3.conocophillips.com/NetMSDS>.

Due to continual product research and development, the information contained herein is subject to change without notification.

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CITGO CITGARD® 600 SINGLE-VISCOSITY  
GRADE ENGINE OILS



Date 01/10

**DESCRIPTION:** CITGO CITGARD 600 Single-Viscosity Grade Engine Oils are high quality, heavy-duty crankcase oils. This product line is manufactured with the latest additive technologies to provide excellent performance. SAE 30, 40, and 50 viscosity grades are designed with low sulfated ash to give optimal performance in Detroit Diesel Two Stroke Cycle diesel engines calling for API CF-2. These mono-grade products also meet the performance requirements of API CF. SAE 10W and SAE 30 viscosity grades have also passed the requirements of the Allison C-4 specification. These lower viscosity grade fluids are excellent for hydraulic applications calling for Allison C-4 and / or Caterpillar TO-2 performance with engine oil type technology additive systems.

- PERFORMANCE BENEFITS:**
- Excellent detergency control of exhaust port deposits in Detroit Diesel Two-stroke cycle diesel engines.
  - Excellent dispersancy and oxidation resistance protect against excessive viscosity increase.
  - Superior wear protection in hydraulic pumps and Detroit Diesel Two-stroke cycle diesel engines.
  - Good TBN properties protect against corrosive wear.
  - Proven oil consumption control in heavy duty service.
  - Shear stability of mono-grades assures stay-in-grade performance.
  - Meets Detroit Diesel recommendations of 1.0% maximum sulfated ash for Two-stroke cycle diesel engines.

**PERFORMANCE CAPABILITIES\*:**

|  |                  |
|--|------------------|
| Caterpillar TO-2                               | Allison C-4      |
| Detroit Diesel Two-stroke Cycle diesel engines | US CID A-A-52306 |

*\*Some performance capabilities are applicable to specific viscosity grade(s).*

**APPLICATIONS:** CITGARD 600 Single-Viscosity Grade Engine Oils are intended for use in heavy-duty service in commercial trucks, agricultural equipment, construction equipment, and other diesel fueled engine, hydraulic, and transmission applications. Specific viscosity grades are approved for use in power-shift, manual, and hydrostatic transmissions, final drives, and hydraulic systems where the equipment manufacturer designates the use of a heavy-duty, detergent-type engine oil. See CITGARD 600 Multi-Grade Product Information Sheet for more options. Check Owners' Manuals for specific viscosity grade and API Service Category recommendations.

(Continued)

CITGO CITGARD® 600 SINGLE-VISCOSITY  
GRADE ENGINE OILS



Date 01/10 - (Continued)

**TYPICAL PROPERTIES:**

**CITGO CITGARD® 600 SINGLE-VISCOSITY GRADE ENGINE OILS**

| SAE Grade   | 10W           | 30        | 40        | 50        |
|---|---------------|-----------|-----------|-----------|
| Material Code   | 622610001     | 622630001 | 622640001 | 622650001 |
| Gravity, ASTM D 4052, °API                                      | 31.8          | 28.4      | 27.3      | 26.5      |
| Pounds Per Gallon   | 7.22          | 7.37      | 7.42      | 7.46      |
| Flash Point, ASTM D 92 (COC), °F (°C)                           | 439 (226)     | 489 (254) | 486 (252) | 482 (250) |
| Viscosity, ASTM D 445, cSt at 100°C                             | 6.9           | 12.0      | 14.9      | 19.0      |
| cSt at 40°C   | 41            | 102       | 145       | 212       |
| Viscosity Index, ASTM D 2270                                    | 129           | 106       | 103       | 100       |
| HTHS Rate Vis at 150°C & 10 <sup>6</sup> sec <sup>-1</sup> , cP | 2.3           | 3.6       | 4.3       | 5.1       |
| CCS Vis, ASTM D 5293, cP at °C                                  | 4,000 at -25  | NR*       | NR*       | NR*       |
| MRV Vis, ASTM D 4684, cP at °C                                  | 10,000 at -30 | NR*       | NR*       | NR*       |
| MRV Yield Stress, ASTM D 4684, Pa at °C                         | <35 at -30    | NR*       | NR*       | NR*       |
| Pour Point, ASTM D 97, °F (°C)                                  | -38 (-39)     | -11 (-24) | +10 (-12) | +10 (-12) |
| Sulfated Ash, ASTM D 874, %m                                    | 0.9           | 0.9       | 0.9       | 0.9       |
| TBN (Total Base No.), ASTM D 2896                               | 8             | 8         | 8         | 8         |
| Color, ASTM D 1500 (may vary by location)                       | L3.0          | L3.0      | L4.0      | L4.0      |

**KEY PERFORMANCE CLAIMS AND APPLICATIONS:**

|   |   |   |   |   |
|---|---|---|---|---|
| API Service Categories  |   |   |   |   |
| CF-2  | - | ✓ | ✓ | ✓ |
| CF  | ✓ | ✓ | ✓ | ✓ |
| Approvals or performances that are<br>Viscosity Grade specific: |   |   |   |   |
| Allison C-4   | ✓ | ✓ | - | - |
| US CID A-A-52306  | - | ✓ | ✓ | - |

\*NR = No Requirement

# **Mobil**

## **Mobil Clean 5000**

### **Premium Automotive Engine Oils**

### **Product Description**

Mobil Clean 5000 is formulated from high quality base stocks combined with modern performance additives, including an advanced detergent system to provide excellent engine cleanliness at oil drain intervals up to 5,000 miles or 6 months, whichever comes first.

These oils protect against sludge and engine rust and corrosion under severe and low-temperature operating conditions. Pour depressants and a viscosity index (VI) improver are included, where required, to provide the optimum viscosity and fluidity across a broad range of temperatures.

Mobil Clean 5000 is available in four multi-viscosity grades: SAE 5W-20, 5W-30, 10W-30, and 10W-40.

Mobil Clean 5000 5W-20 meets the latest requirements of Ford and Honda. It meets Ford Specification WSS-M2C930-A.

Mobil Clean Oil 5W-20, 5W-30 and 10W-30 contain friction-reducing additives. The American Petroleum Institute (API) classifies these viscosity grades as "Energy Conserving" engine lubricants

### **Features and Benefits**

- Proven protection of critical engine parts from lubrication related failure for 5,000 miles or 6 months, whichever comes first.
- Extra cleaning performance to help prevent the formation of sludge and harmful deposits
- Outstanding wear protection under a wide variety of operating conditions
- Satisfies the latest oil requirements of gasoline engine manufacturers (5W-20 recommended for certain Ford and Honda's)
- Meets latest Fuel efficiency requirements(Mobil Clean 5000 5W-20, 5W-30 and 10W-30)
- Easier cold starting.

## Applications

Mobil Clean 5000 5W-20 meets or exceeds the requirements for vehicles which call for an API certified, 5W-20 viscosity grade engine oil such as 2001 and newer model year Ford automobiles, 1998 and newer model year Honda Accords, 1996 and newer Honda Civics and certain 2005 Chrysler vehicles. This unique viscosity grade should be used only in automobiles that require a 5W-20 lubricant and it is not recommended for use in other vehicles.

Mobil Clean 5000 5W-30 and Mobil Clean 5000 10W-30 is meets or exceeds the requirements for gasoline fueled automobiles and light duty trucks requiring an API SM, SL or SJ product or API CF or CD. They meet or exceeds the requirements for ILSAC GF-4 (Starburst Certification Symbol).

Mobil Clean 5000 10W-40 meets or exceeds the requirements for gasoline fueled automobiles and light duty trucks where a higher viscosity oil is preferred or recommended and where an API SM, SL or SJ or API CF or CD product is required.

Before using Mobil Clean 5000 performance motor oil, consult the owner's manual of the vehicle for the manufacturer's recommended viscosity grade and API Service Classification.

## Specifications and Approvals

Meets or exceeds the following industry specifications:

| <b>Mobil<br/>Clean<br/>5000</b> | <b>5W-<br/>20</b> | <b>5W-<br/>30</b> | <b>10W-<br/>30</b> | <b>10W-<br/>40</b> |
|---------------------------------|-------------------|-------------------|--------------------|--------------------|
| API SM                          | X                 | X                 | X                  | X                  |
| API SL                          | X                 | X                 | X                  | X                  |
| ILSAC GF-4                      | X                 | X                 | X                  |                    |

According to ExxonMobil, is of the following quality level::

| <b>Mobil Clean 5000</b> | <b>5W-20</b> | <b>5W-30</b> | <b>10W-30</b> | <b>10W-40</b> |
|-------------------------|--------------|--------------|---------------|---------------|
| API SJ                  | X            | X            | X             | X             |
| API CD                  | X            | X            | X             | X             |
| API CF                  | X            | X            | X             | X             |

Meets or exceeds the following engine builder specifications:

| <b>Mobil Clean 5000</b> | <b>5W-20</b> | <b>5W-30</b> | <b>10W-30</b> | <b>10W-40</b> |
|-------------------------|--------------|--------------|---------------|---------------|
| GM 6094M                | -            | X            | X             | -             |



| <b>Mobil Clean 5000</b> | <b>5W-20</b> | <b>5W-30</b> | <b>10W-30</b> | <b>10W-40</b> |
|-------------------------|--------------|--------------|---------------|---------------|
| Chrysler MS-6395        | X            | X            | X             | -             |
| FORD WSS-M2C930-A       | X            | -            | -             | -             |
| FORD WSS-M2C929-A       | -            | X            | -             | -             |

## Typical Properties

| <b>Mobil Clean 5000</b>         | <b>5W-20</b> | <b>5W-30</b> | <b>10W-30</b> | <b>10W-40</b> |
|---------------------------------|--------------|--------------|---------------|---------------|
| API Service Classification      | SM/CF        | SM/CF        | SM/CF         | SM/CF         |
| Gravity, API                    | 33           | 32.6         | 30.8          | 30            |
| Specific Gravity                | 0.860        | 0.862        | 0.872         | 0.876         |
| Pour Point, °C (°F)             | -39 (-38)    | -33 (-27)    | -36 (-33)     | -36(-33)      |
| Flash Point, °C (°F), ASTM D 92 | 200 (392)    | 200 (392)    | 200 (392)     | 200 (392)     |
| Viscosity                       |              |              |               |               |
| cSt at 40°C                     | 47.8         | 62.2         | 68.7          | 102.1         |
| cSt at 100°C                    | 8.5          | 10.6         | 10.4          | 14.55         |
| CCS, cP                         | 5100@ -30°C  | 5940@ -30°C  | 5760@ -25°C   | 6140@ -25°C   |
| MRV, cP                         | 21400@ -35°C | 20900@ -35°C | 18700@ -30°C  | 20,300@ -30°C |
| Viscosity Index                 | 156          | 161          | 138           | 147           |
| Energy Conserving               | Yes          | Yes          | Yes           | No            |

## Health and Safety

Based on available information, this product is not expected to produce adverse effects on health when used for the intended application and the recommendations provided in the Material Safety Data Sheet (MSDS) are followed. MSDS's are available upon request through your sales contract office, or via the Internet. This product should not be used for purposes other than its intended use. If disposing of used product, take care to protect the environment.

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9-2010

Exxon Mobil Corporation  
3225 Gallows Road  
Fairfax, VA 22037

1-800-ASK MOBIL (275-6624)

Typical Properties are typical of those obtained with normal production tolerance and do not constitute a specification. Variations that do not affect product performance are to be expected during normal manufacture and at different blending locations. The information contained herein is subject to change without notice. All products may not be available locally. For more information, contact your local ExxonMobil contact or visit [www.exxonmobil.com](http://www.exxonmobil.com)

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## Universal Gear Lubricant

Conoco® Universal Gear Lubricant is a multipurpose, extreme-pressure, API GL-5 automotive gear lubricant specifically designed for use in passenger car and truck axles with hypoid gear sets.

Universal Gear Lubricant is formulated to provide long service life and extended gear life in automotive differentials operating under varying conditions of speed, load, temperature and torque. The carefully balanced formulation is designed to minimize oxidative sludge and varnish formation, reduce wear, prevent scoring damage, and protect against metal fatigue and spalling damage under shock-load conditions.

### Applications

- Service fill of conventional differentials on passenger cars and trucks
- Top-off only of limited-slip differentials on passenger cars and light trucks<sup>(1)</sup>
- Service fill of differentials, final drives and transfer cases in some off-highway equipment
- Non-synchronized manual transmissions in trucks, buses and heavy equipment where the manufacturer specifies an API GL-5 or MT-1 gear oil

<sup>(1)</sup>**Note:** For complete drain and refill, many limited-slip differentials may require the manufacturer's specified gear lubricant or supplemental additive. Refer to the owner's manual for specific requirements.

Universal Gear Lubricant meets or exceeds the requirements of:

- API Service GL-5, MT-1
- ArvinMeritor O76-A (SAE 85W-140), O76-D (SAE 80W-90)
- Ford WSP-M2C197-A (SAE 80W-90)
- Mack GO-J
- MIL-PRF-2105E
- SAE J2360

### Features/Benefits

- Excellent oxidation resistance and thermal stability to minimize sludge and varnish formation
- Excellent thermal durability and extreme-pressure properties for extended gear life

**Multipurpose  
Automotive  
Gear Lubricant,  
API GL-5/MT-1**

### Contact Information

**U.S. Customer  
Service:  
1-800-640-1956**

**Technical Hot Line:  
1-800-255-9556**

**International  
Customer Service:  
+1-832-486-3363  
+1-832-486-3870**

**E-mail address:  
conocolubricants@  
conocophillips.com**

[www.lubes.conoco.com](http://www.lubes.conoco.com)

600 N. Dairy Ashford • 2W9000 • Houston, TX 77079



- High load-carrying capacity for protection against scuffing and wear
- Protects against rust and corrosion
- Good foam resistance

### Universal Gear Lubricant

#### Typical Properties

| SAE Grade                  | 80W-90    | 85W-140   |
|----------------------------|-----------|-----------|
| Specific Gravity @ 60°F    | 0.887     | 0.896     |
| Density, lbs/gal @ 60°F    | 7.40      | 7.47      |
| Color, ASTM D1500          | 3.0       | 4.0       |
| Flash Point (COC), °C (°F) | 212 (414) | 216 (421) |
| Pour Point, °C (°F)        | -30 (-22) | -12 (10)  |
| Viscosity, Brookfield      |           |           |
| cP @ -26°C                 | 128,000   | —         |
| cP @ -12°C                 | —         | 61,500    |
| Viscosity, Kinematic       |           |           |
| cSt @ 40°C                 | 140       | 319       |
| cSt @ 100°C                | 14.3      | 24.2      |
| Viscosity Index            | 99        | 98        |

#### Health and Safety Information

For recommendations on safe handling and use of this product, please refer to the Material Safety Data Sheet via <http://w3.conocophillips.com/NetMSDS>.

Typical properties are average values only and do not constitute a specification. Minor variations that do not affect product performance are to be expected during normal manufacture, and at different blending locations. Product formulations are subject to change without notification.

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# Chevron RPM® Gear Oils

## SAE 90, 140

### Customer Benefits

Chevron RPM Gear Oils deliver value through

**Full lubricant film** provided through use of select high viscosity index base stocks.

**Rust protection** assures long equipment life by protecting gears from rust.

**Antifoam protection** provides longer gear and bearing life by maintaining full lubricant film with minimal entrained air or surface foam.

**High viscosity index** avoids thinning out excessively at high temperatures.

**Oxidation stability** is excellent, even in the presence of copper or bronze.

### Features

Chevron RPM Gear Oils are straight mineral gear oils.

They are manufactured from specially treated high viscosity index paraffinic base stocks. They contain a metal deactivator to stop such metals as copper from acting as catalysts to promote oil oxidation. They also contain rust, corrosion, and foam inhibitors, plus a pour point depressant to assure fluidity at low temperatures.

Chevron RPM Gear Oils provide long life for gears and bearings in gear cases where the OEM recommends the use of a straight mineral oil.

High viscosity indexes and low pour points assure good film strength and gear wear protection at both high and low temperatures.

### Applications

Chevron RPM Gear Oils are recommended for any automotive or industrial equipment where the equipment suppliers recommend the use of a straight mineral oil in SAE viscosity grades 90 (ISO 220) or 140 (ISO 460).

Chevron RPM Gear Oils are also suitable for lubrication of any equipment where copper or bronze is present and susceptible to attack by oils containing sulfur-phosphorus compounds.

Chevron RPM Gear Oils meet the requirements of **API Service Category GL-1**.

### Typical Test Data

| SAE Grade            | 90       | 140      |
|----------------------|----------|----------|
| CPS Number           | 250403   | 250408   |
| MSDS Number          | 6937     | 6937     |
| ISO Grade            | 220      | 460      |
| API Gravity          | 28.0     | 25.1     |
| Viscosity, Kinematic |          |          |
| cSt at 40°C          | 218      | 482      |
| cSt at 100°C         | 19.0     | 31.3     |
| Viscosity, Saybolt   |          |          |
| SUS at 100°F         | 1152     | 2587     |
| SUS at 210°F         | 97       | 153      |
| Viscosity Index      | 98       | 95       |
| Flash Point, °C(°F)  | 278(532) | 290(554) |
| Pour Point, °C(°F)   | -15(+5)  | -15(+5)  |
| Timken OK Load, lb   | 15       | 15       |

Typical test data are average values only. Minor variations which do not affect product performance are to be expected in normal manufacturing.

**Mobil**

# **Mobil Delvac Synthetic Transmission Fluid 50**

**Supreme Performance Transmission Lubricant**

## **Product Description**

Mobil Delvac Synthetic Transmission Fluid 50 is a fully synthetic, manual transmission lubricant engineered to meet the most demanding extended drain and OEM warranty requirements. It is recommended for year-round lubrication of manual transmissions in light to severe duty on- and off-highway equipment operating in a wide range of environments. Designed to provide maximum protection and extended operating life to heavy duty transmissions, Mobil Delvac Synthetic Transmission Fluid 50 provides significant advantages over conventional sulphur-phosphorus gear oils, including outstanding high-temperature performance, oxidation stability, wear protection, and corrosion control.

It has the same viscosity as most SAE 50 engine oils and SAE 90 gear lubricants at the high end of the temperature-viscosity scale, and because of its inherently high viscosity index, it provides stronger film strength at higher temperatures than conventional oils. Mobil Delvac Synthetic Transmission Fluid 50 also ensures effective lubrication at below freezing temperatures without channelling.

The outstanding performance of this product is confirmed by its approval for heavy-duty transmissions covered by Eaton Roadranger and Extended Warranties of 750,000 miles, with oil drains of 500,000 miles. It is also approved by Mack against its TO-A Plus 500,000 mile extended service classification. Mobil Delvac Synthetic Transmission Fluid 50 meets the API service MT-1 EP gear oil service classification and is suitable for transmissions and gear cases where API Service GL-1 through GL-4 gear protection is required.

## **Features and Benefits**

The performance capabilities of today's heavy-duty on- and off-highway equipment have vastly improved in terms of load, speed, control, and reliability through innovative powertrain designs. These designs have markedly increased the demands on transmission lubricants, requiring them to deliver higher levels of performance while extending drains. For heavy-duty transmissions, friction control, wear protection, thermal stability, shear stability, rust and corrosion protection, and seal protection are features that must be balanced to provide extended gear and synchroniser life, smooth shift control, improved efficiency, and higher load capability over a wide range of

applications and operating environments. Mobil Delvac Synthetic Transmission Fluid 50 delivers unequalled performance in today's manual transmissions. The key benefits include:

| <b>Features</b>  | <b>Advantages and Potential Benefits</b>  |
|--|---|
| Excellent load carrying, anti-wear, and EP performance     | Extends transmission life and reduces cost of operation                         |
| Outstanding protection against deposit formation           | Longer seal life, extended drain and service intervals                          |
| Maximum protection from corrosion of copper and its alloys | Protects and extends the life of synchronizers                                  |
| Optimized thermal and oxidation protection                 | Extends component life and improves efficiency                                  |
| Exceptional shear stability                                | Minimizes wear during severe operation  |
| Outstanding low-temperature fluidity                       | Reduces wear during cold temperatures and improves shifting with quicker starts |
| Extended drain and service interval capability             | Provides lower operating costs and higher productivity                          |
| Improved friction reduction properties                     | Improves fuel economy and lowers operating costs                                |

## Applications

- Heavy-duty manual transmissions where extended service intervals and warranties are required
- On-highway, commercial light and heavy duty trucking, buses, and vans
- Off-highway industries including construction, mining, and agriculture
- Use as a companion with Mobil Delvac Synthetic Gear Oils in rear axles for maximum component life, service efficiency, and fuel economy improvement
- NOT suitable for hypoid gear applications in differentials and final drives, either for topping-off or refills, where API service GL-5 or MIL-PRF-2105E lubricants are specified

## Specifications and Approvals

**Mobil Delvac Synthetic Transmission Fluid 50 meets the following industry and builder specifications:**

API GL-4/MT-1 X

**Mobil Delvac Synthetic Transmission Fluid 50 has the following builder approvals:**

Eaton Roadranger E500TM PS-164 Rev 7 X

Mack TO-A Plus X

International TMS-6816 X

Volvo 97315 X

ZF FreedomLine X

## Typical Properties

### Mobil Delvac Synthetic Transmission Fluid

50

|                                  |      |
|----------------------------------|------|
| SAE Grade                        | 50   |
| Viscosity, ASTM D 445            |      |
| cSt @ 40°C                       | 132  |
| cSt @ 100°C                      | 17.5 |
| Viscosity Index, ASTM D 2270     | 146  |
| Pour Point, °C, ASTM D 97        | -45  |
| Flash Point, °C, ASTM D 92       | 221  |
| Density @ 15°C kg/l, ASTM D 4052 | 0.86 |

## Health and Safety

Based on available information, this product is not expected to produce adverse effects on health when used for the intended application and the recommendations provided in the Material Safety Data Sheet (MSDS) are followed. MSDS's are available upon request through your sales contract office, or via the Internet. This product should not be used for purposes other than its intended use. If disposing of used product, take care to protect the environment.

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Exxon Mobil Corporation  
3225 Gallows Road  
Fairfax, VA 22037

1-800-ASK MOBIL (275-6624)

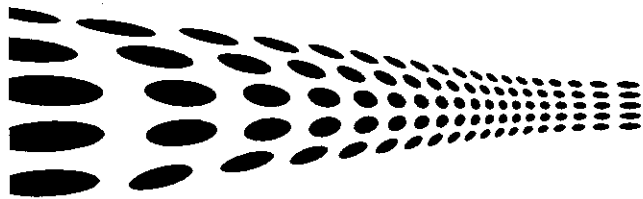
Typical Properties are typical of those obtained with normal production tolerance and do not constitute a specification. Variations that do not affect product performance are to be expected during normal manufacture and at different blending locations. The information contained herein is subject to change without notice. All products may not be available locally. For more information, contact your local ExxonMobil contact or visit [www.exxonmobil.com](http://www.exxonmobil.com)  
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## Dynalife® HT

Dynalife HT is a high-quality, multipurpose, extreme-pressure (EP) lithium complex grease developed for the lubrication of automotive and industrial equipment operating under heavy loads and at moderate to high temperatures. It is recommended for use in a variety of automotive, agricultural, mining and industrial applications. It is NLGI GC-LB certified for use as a multipurpose automotive wheel bearing and chassis lubricant.

Dynalife HT is manufactured with high-quality, heavy paraffinic base oils thickened with lithium complex soap. It is fortified with extreme-pressure and antiwear additives, a tackifier, and rust and oxidation inhibitors to provide excellent wear protection, excellent thermal stability at high temperatures, and excellent resistance to corrosion and water washout. The combination of tackifier and heavy base oil provides a high level of adhesion to metal parts for improved retention and reduced leakage at high temperatures, and enhanced resistance to water washout.

Dynalife HT forms an effective seal to help minimize bearing contamination. It is dyed red for ease of identification.

### **Applications**

- Heavily loaded plain and rolling-element bearings in agricultural, construction, mining and industrial equipment
- Wheel bearings of passenger cars, trucks, high-performance vehicles, sport utility vehicles and motorcycles equipped with disc brakes
- Ball joints, universal joints, other chassis parts and water pumps on passenger cars, trucks and other mobile equipment
- Grease guns in auto repair shops
- Conveyor bearings

### **Features/Benefits**

- Excellent high-temperature performance
- Excellent wear protection
- High load-carrying capacity
- Protects against rust and corrosion
- Excellent resistance to water washout
- Good low-temperature pumpability
- NLGI GC-LB certified

**Multipurpose,  
Heavy Base Oil,  
Extreme-Pressure  
Lithium Complex  
Grease; NLGI GC-LB  
Certified**

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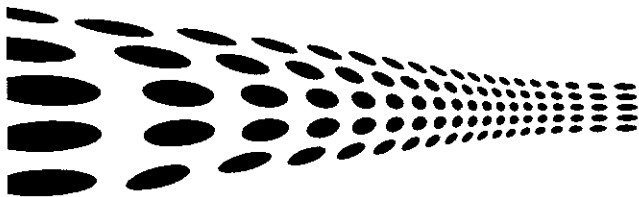
### **Contact Information**

**U.S. Customer  
Service:  
1-800-822-6457**

**Technical Hot Line:  
1-877-445-9198**

**International  
Customer Service:  
+1-832-486-3363**

**E-mail address:  
*lubricants@  
conocophillips.com***



### Dynalife® HT

#### Typical Properties

| NLGI Grade  | 1               | 2               |
|---|-----------------|-----------------|
| Thickener   | Lithium Complex | Lithium Complex |
| Color   | Red             | Red             |
| Dropping Point, °C (°F)   | 260 (500)       | 288 (550)       |
| Density, lbs/gal  | 7.44            | 7.44            |
| Penetration, Worked (60 strokes), ASTM D217                       | 310-340         | 265-295         |
| Texture   | Smooth/Tacky    | Smooth/Tacky    |
| Four-Ball EP, ASTM D2596, Weld Load, kgf                          | 315             | 315             |
| Four-Ball Wear, ASTM D2266, Scar Diameter, mm                     | 0.45            | 0.45            |
| Oxidation Stability, ASTM D942, 100 hrs, Pressure Drop, psi (kPa) | 2 (15)          | 2 (15)          |
| Rust Prevention, ASTM D1743                                       | Pass            | Pass            |
| Timken OK Load, ASTM D2509, lb                                    | 70              | 80              |
| Water Washout Resistance, ASTM D1264, Weight Loss @ 175°F, %      | 7.50            | 2.75            |
| Base Oil Properties:  |                 |                 |
| Viscosity,  |                 |                 |
| cSt @ 40°C  | 625             | 625             |
| cSt @ 100°C   | 40.0            | 40.0            |
| SUS @ 100°F   | 3,350           | 3,350           |
| SUS @ 210°F   | 195             | 195             |
| Viscosity Index   | 104             | 104             |
| Usable Temperature Range,   |                 |                 |
| °C  | -18 to 204      | -12 to 204      |
| °F  | 0 to 400        | 10 to 400       |

#### Health and Safety Information

For recommendations on safe handling and use of this product, please refer to the Material Safety Data Sheet via <http://w3.conocophillips.com/NetMSDS>.

Typical properties are average values only and do not constitute a specification. Minor variations that do not affect product performance are to be expected during normal manufacture, and at different blending locations. Product formulations are subject to change without notification.

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## Megaplex® XD3

Megaplex XD3 is a high-performance, multipurpose, extreme-pressure (EP) lithium complex grease developed to satisfy the severe lubrication requirements of construction and off-road equipment manufactured by Caterpillar, Komatsu Dresser, Case New Holland, John Deere and others. It is particularly recommended for use in off-highway trucks and heavy equipment, such as bulldozers, motor graders, pipe layers, scrapers, skidders, wheel loaders and soil compactors, operating under heavy or shock load conditions.

Megaplex XD3 is manufactured with high-quality, heavy paraffinic base oils thickened with lithium complex soap. It contains an effective extreme-pressure additive, 3% molybdenum disulfide (moly), a tackifier, and rust and oxidation inhibitors to provide excellent wear protection, as well as excellent corrosion protection and resistance to water washout in equipment operating under wet conditions and/or high temperatures and subject to heavy or shock loading.

Megaplex XD3 Grade No. 1 is NLGI GC-LB certified for use as a multipurpose automotive wheel bearing and chassis lubricant.

### **Applications**

- Chassis parts and wheel bearings of construction, mining and other heavy mobile equipment
- Universal joints, constant velocity joints, brake self-adjusting screws and clutch release bearings on off-highway trucks and other heavy equipment
- Tractor-trailer fifth wheels
- Heavily loaded plain and rolling-element bearings in industrial equipment where the manufacturer specifies a high-temperature, extreme-pressure grease with 3% moly

Megaplex XD3 meets the performance requirements of:

- Caterpillar Multipurpose Molybdenum Grease (MPGM)

### **Features/Benefits**

- Meets Caterpillar requirements for 3% moly grease (MPGM)
- High dropping point (>500°F)
- High load-carrying capacity
- Excellent wear protection
- Excellent resistance to water washout
- Excellent resistance to separation

**Extreme-Pressure  
Lithium Complex  
Grease With  
3% Moly For  
Construction And  
Off-Road Equipment**

### **Contact Information**

**U.S. Customer  
Service:  
1-800-822-6457**

**U.S. Technical  
Services Hot Line:  
1-800-766-0050**

**International:  
+1-832-486-3363**

**E-mail address:  
lubricants@  
conocophillips.com**

<http://lubricants.conocophillips.com>

600 N. Dairy Ashford • 2W9000 • Houston, TX 77079



- Protects against rust and oxidation
- NLGI GC-LB certified (Grade No. 1)

### Megaplex® XD3

#### Typical Properties

| NGLI Grade                                    | 1               | 2               |
|---|-----------------|-----------------|
| Thickener                                     | Lithium Complex | Lithium Complex |
| Color   | Gray            | Gray            |
| Dropping Point, °C (°F)                       | 280 (536)       | 280 (536)       |
| Density, lbs/gal                              | 7.88            | 7.88            |
| Penetration, Worked (60 strokes), ASTM D217   | 325             | 280             |
| Texture                                       | Tacky           | Tacky           |
| Molybdenum Disulfide, wt %                    | 3               | 3               |
| Four-Ball EP, ASTM D2596, Weld Load, kgf      | 315             | 315             |
| Four-Ball Wear, ASTM D2266, Scar Diameter, mm | 0.60            | 0.60            |
| Oxidation Stability, ASTM D942, 100 hours,    |                 |                 |
| Pressure Drop, psi (kPa)                      | 5 (35)          | 5 (35)          |
| Rust Prevention, ASTM D1743                   | Pass            | Pass            |
| Timken OK Load, ASTM D2509, lb                | 65              | 65              |
| Base Oil Properties:                          |                 |                 |
| Viscosity (with polymer),                     |                 |                 |
| cSt @ 40°C                                    | 460             | 460             |
| cSt @ 100°C                                   | 30.0            | 30.0            |
| SUS @ 100°F                                   | 2,469           | 2,469           |
| SUS @ 210°F                                   | 147             | 147             |
| Viscosity Index                               | 92              | 92              |
| Usable Temperature Range,                     |                 |                 |
| °C  | -29 to 204      | -23 to 204      |
| °F  | -20 to 400      | -10 to 400      |

#### Health and Safety Information

For recommendations on safe handling and use of this product, please refer to the Material Safety Data Sheet via <http://w3.conocophillips.com/NetMSDS>.

Due to continual product research and development, the information contained herein is subject to change without notification.

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CSB-08 3399226

02/08



# CHEVRON REGAL<sup>®</sup> R&O

115 and ISO 22, 32, 46, 68, 100, 150, 220, 320, 460, 680

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## CUSTOMER BENEFITS

Chevron Regal R&O oils deliver value through:

- **Long lubricant life** provided by excellent thermal and oxidation stability.
- **Excellent demulsibility**, which assures good lubricant, film strength and reduced wear through quick water separation.
- **Excellent air release** in turbulent turbine oil reservoir systems by the foam inhibitor hastening the release of foam and entrained air.
- **Rust protection** of metal surfaces due to the use of an effective rust and corrosion inhibitor.
- **Multifunctional performance** with excellent properties built in, allowing them to replace other compressor, turbine, and hydraulic oils; thus reducing inventories.
- **Environmental benefits** — All grades are ashless. This facilitates reclaiming and recycling of the used oils. Chevron Regal R&O oils are not expected to be harmful to aquatic organisms.

## FEATURES

Chevron Regal R&O oils provide rust protection, oxidation inhibition, and foam suppression.

They pass the Fresh Water Corrosion Test (ASTM D 665, Procedure A), and the severe Synthetic Sea Water Test (ASTM D 665, Procedure B).

The thermal and oxidation stability of these lubricants, due to their high level of refinement, has been further enhanced by their unique additive systems. The high thermal and oxidation stability also reduces the possibility of oxidation deposits or the generation of acidic material from oxidation.

Chevron Regal R&O oils are able to withstand relatively high temperature operations for extended periods of time.

They have very good demulsibility characteristics allowing quick release of moisture.

They minimize entrained air which otherwise could result in low lubricant film strength between moving parts and pump cavitation.

## APPLICATIONS

Chevron Regal R&O oils ISO 32 through ISO 150 are recommended for use in electric motor bearings, air compressors, gears, hydroelectric turbines, steam turbines, marine turbines, and hydraulic systems (except heavy duty systems, where products such as Chevron AW Hydraulic Oils or Chevron Rando<sup>®</sup> are recommended).

These products can also be used as a general purpose machine oil for shop use. Their multifunctional characteristics allow them to replace other special application lubricants, resulting in reduced inventory and operating cost.

### Chevron Regal R&O 32

- meets:
  - **General Electric** GEK 28143A, GEK 46506D
  - **Alstom** HTGD 90117
  - **Siemens** TLV 901304
  - **ASTM** D4304, **British Standard** 489, and **DIN** 51515 standard organization requirements for new lubricants used in gas and steam turbines and auxiliary equipment
  - **Cincinnati Machine** P-38

### Chevron Regal R&O 46

- meets:
  - **General Electric** GEK 28143A
  - **Alstom** HTGD 90117
  - **Siemens** TLV 901304
  - **ASTM** D4304, **British Standard** 489, and **DIN** 51515 standard organization requirements for new lubricants used in gas and steam turbines and auxiliary equipment
  - **Cincinnati Machine** P-55

**Chevron Regal R&O 68**

- meets:
  - **General Electric, Alstom, Westinghouse**, and other OEM requirements for hydroelectric turbines, land and marine steam turbines, and associated reduction gears
  - **ASTM D4304, British Standard 489**, and **DIN 51515** standard organization requirements for new lubricants used in gas and steam turbines and auxiliary equipment
  - **Cincinnati Machine P-54**

**Chevron Regal R&O 100**

- meets:
  - **General Electric, Alstom, Westinghouse**, and other OEM requirements for hydroelectric turbines, land and marine steam turbines, and associated reduction gears
  - **ASTM D4304, British Standard 489**, and **DIN 51515** standard organization requirements for new lubricants used in gas and steam turbines and auxiliary equipment

Do not use Chevron Regal R&O 32, 46, or 68 in high pressure systems in the vicinity of flames, sparks and hot surfaces. Use only in well ventilated areas. Keep container closed.

Do not use in breathing air apparatus or medical equipment.

Note that finished lubricants may affect the adherence of applied protective coatings (such as paint). If this product is used where coating applications are performed, the coating manufacturer should be consulted regarding adequate surface preparation.

**TYPICAL TEST DATA**

|  | ASTM   | 115 <sup>a</sup> | ISO 22           | 32               | 46               | 68               | 100              | 150              | 220              | 320              | 460            | 680      |
|--|--------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|----------------|----------|
| Product Number   |        | 277311           | 277312           | 273209           | 273210           | 273211           | 273212           | 273213           | 273215           | 273214           | 273275         | 277313   |
| MSDS Number  |        | 23566            | 23566            | 23566            | 23566            | 23566            | 23566            | 23566            | 23569            | 23569            | 23569          | 23569    |
| API Gravity <sup>b</sup>   | D 287  | 30.5(27.6)       | 34.2(32.1)       | 32.9(31.3)       | 31.7(30.2)       | 31.2(29.1)       | 30.7(28.1)       | 29.8(27.1)       | 28.5(26.1)       | 27.5(25.4)       | 26.4           | 26.3     |
| Viscosity, Kinematic<br>cSt at 40°C                                      | D 445  | 115              | 23.1             | 30.4             | 43.7             | 64.6             | 95.0             | 143              | 220              | 304              | 460            | 646      |
| cSt at 100°C   |        | 12.2             | 4.4              | 5.2              | 6.5              | 8.4              | 10.8             | 14.2             | 19.0             | 23.2             | 31.3           | 39.6     |
| Viscosity, Saybolt<br>SUS at 100°F                                       | D 445  | 602              | 120              | 157              | 226              | 335              | 495              | 750              | 1163             | 1618             | 2463           | 3474     |
| SUS at 210°F   |        | 68.5             | 41.2             | 43.7             | 48.0             | 54.5             | 63.1             | 76.4             | 96.8             | 116              | 152            | 193      |
| Viscosity Index  | D 2270 | 96               | 102              | 100              | 98               | 99               | 97               | 96               | 97               | 95               | 97             | 99       |
| Flash Point, °C(°F)  | D 92   | 278(532)         | 220(428)         | 222(432)         | 224(435)         | 245(473)         | 262(504)         | 284(543)         | 294(561)         | 298(568)         | 310(590)       | 312(594) |
| Pour Point, °C(°F)   | D 97   | -15(+5)          | -15(+5)          | -30(-22)         | -27(-17)         | -24(-11)         | -15(+5)          | -15(+5)          | -12(+10)         | -12(+10)         | -12(+10)       | -12(+10) |
| Rust Test,<br>Procedure B, 24 h  | D 665  | Pass             | Pass             | Pass             | Pass             | Pass             | Pass             | Pass             | Pass             | Pass             | Pass           | Pass     |
| Oxidation Stability <sup>b</sup><br>Hours to 2.0 mg<br>KOH/g acid number | D 943  | —<br>(>2000)     | >6000<br>(>3000) | >6000<br>(>3000) | >6000<br>(>3000) | >5500<br>(>2500) | >5500<br>(>2000) | >3500<br>(>1500) | >2200<br>(>1200) | >1800<br>(>1100) | >900<br>(>900) | >900     |
| Minutes to 25 psi<br>pressure drop                                       | D 2272 | —<br>(>575)      | >1000<br>(>700)  | >1000<br>(>750)  | >950<br>(>700)   | >950<br>(>650)   | >950<br>(>600)   | >700<br>(>550)   | >500<br>(>450)   | >400             | >350           | >350     |
| FZG, Pass Stage,<br>DIN 51354  |        | —                | —                | 10               | 10               | 10               | 10               | —                | —                | —                | —              | —        |

a. Available in the Midwest and East.

b. Typical values for products from the "East of the Rockies" plants (Bayonne, Charleston, Cicero, Louisville, and Port Arthur) are in parentheses.

Typical test data are average values only. Minor variations which do not affect product performance are to be expected in normal manufacturing.





## Megaflow™ AW Hydraulic Oil

Megaflow AW Hydraulic Oil is a high-quality antiwear hydraulic oil developed for use in a wide variety of industrial and mobile hydraulic system applications. It meets the performance requirements of all major hydraulic pump manufacturers, and is recommended for use in all types of high-pressure, high-speed hydraulic pumps.

Megaflow AW Hydraulic Oil is formulated to provide excellent wear protection for hydraulic pumps and motors, and to protect hydraulic system components against rust and corrosion. It has excellent oxidation resistance and thermal stability at high temperatures to minimize deposit formation and provide long service life. It has excellent water-separating properties to minimize the formation of emulsions, and is resistant to excessive foam buildup that can cause poor or sluggish hydraulic system response.

### **Applications**

- Hydraulic systems on industrial, mobile and marine equipment
- Automated machine tools
- Elevators, hoists, presses and floor jacks
- Marine cargo winches and steering systems
- Mobile construction equipment
- Plastic injection molding machines
- Service station lifts
- Air tools and other pneumatic equipment lubricated through air line lubricators
- Chain drives
- Electric motor bearings
- Moderately loaded enclosed industrial gearboxes that do not require an extreme-pressure (EP) gear oil

Megaflow AW Hydraulic Oil meets the requirements of the following industry and OEM specifications:

- Bosch Rexroth RE 90 220
- Denison Hydraulics HF-0, HF-1, HF-2
- DIN 51524 Part 2, Antiwear Hydraulic Oils, Type HLP
- German Steel Industry SEB 181222
- ISO 11158:1997, Family H (Hydraulic Systems), Type HM
- U.S. Steel 127
- Vickers (Eaton) M-2950-S, I-286-S

**High-Quality  
Antiwear Hydraulic  
Oil**

### **Contact Information**

**U.S. Customer  
Service:**  
**1-800-822-6457**

**Technical Hot Line:**  
**1-800-766-0050**

**International  
Customer Service:**  
**+1-832-486-3363**  
**+1-832-486-3870**

**E-mail address:**  
***lubricants@  
conocophillips.com***

<http://lubricants.conocophillips.com>

600 N. Dairy Ashford • 2W9000 • Houston, TX 77079



### ***Features/Benefits***

- Excellent wear protection for hydraulic pumps and motors
- Excellent oxidation resistance and thermal stability
- Protects against rust and corrosion
- Excellent water-separating properties
- Excellent filterability, even in the presence of a small amount of water
- Good foam resistance

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Typical properties are average values only and do not constitute a specification. Minor variations that do not affect product performance are to be expected during normal manufacture, and at different blending locations. Product formulations are subject to change without notification.

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## Megaflow™ AW Hydraulic Oil

### Typical Properties

| ISO Grade                        | 22     | 32     | 46     | 68     | 100    | 150    | 220    | 320    |
|----------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|
| Specific Gravity @ 60°F          | 0.857  | 0.862  | 0.868  | 0.871  | 0.873  | 0.883  | 0.886  | 0.892  |
| Density, lbs/gal @ 60°F          | 7.14   | 7.19   | 7.24   | 7.26   | 7.28   | 7.36   | 7.39   | 7.44   |
| Color, AST500                    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 3.0    | 4.0    | 5.0    |
| Flash Point (COC),               |        |        |        |        |        |        |        |        |
| °C                               | 196    | 216    | 227    | 238    | 252    | 274    | 274    | 282    |
| °F                               | 385    | 421    | 441    | 460    | 486    | 525    | 525    | 540    |
| Pour Point,                      |        |        |        |        |        |        |        |        |
| °C                               | -40    | -37    | -37    | -33    | -32    | -21    | -21    | -15    |
| °F                               | -40    | -35    | -35    | -27    | -26    | -6     | -6     | 5      |
| Viscosity,                       |        |        |        |        |        |        |        |        |
| cSt @ 40°C                       | 22.0   | 31.0   | 46.0   | 68.0   | 100    | 149    | 220    | 320    |
| cSt @ 100°C                      | 4.3    | 5.4    | 6.8    | 8.7    | 11.0   | 14.7   | 19.2   | 24.3   |
| SUS @ 100°F                      | 115    | 160    | 237    | 353    | 523    | 782    | 1,162  | 1,703  |
| SUS @ 210°F                      | 40.7   | 44.4   | 49.0   | 55.5   | 63.9   | 78.5   | 97.7   | 121    |
| Viscosity Index                  | 104    | 104    | 100    | 99     | 98     | 98     | 98     | 97     |
| Acid Number, ASTM D974, mg KOH/g | 0.38   | 0.38   | 0.38   | 0.38   | 0.38   | 0.38   | 0.38   | 0.38   |
| Copper Corrosion, ASTM D130      | 1a     | 1a     | 1a     | 1a     | 1a     | 1a     | 1a     | 1a     |
| Demulsibility, ASTM D1401,       |        |        |        |        |        |        |        |        |
| minutes to pass                  | 10     | 10     | 10     | 10     | 10     | 10     | 10     | 10     |
| Foam Test, ASTM D892             | Pass   | Pass   | Pass   | Pass   | Pass   | Pass   | Pass   | Pass   |
| FZG Scuffing Test, ASTM D5182,   |        |        |        |        |        |        |        |        |
| Failure Load Stage               | —      | 12     | 12     | 12     | 12     | 12     | 12     | 12     |
| Oxidation Stability,             |        |        |        |        |        |        |        |        |
| TOST, ASTM D943-04a, hours       | >5,000 | >5,000 | >5,000 | >5,000 | >5,000 | >4,500 | >4,500 | >4,500 |
| RPVOT, ASTM D2272, minutes       | >270   | >270   | >270   | >270   | >270   | >250   | >250   | >250   |
| Rust Test, ASTM D665 A&B         | Pass   | Pass   | Pass   | Pass   | Pass   | Pass   | Pass   | Pass   |
| Zinc, wt %                       | 0.043  | 0.043  | 0.043  | 0.043  | 0.043  | 0.043  | 0.043  | 0.043  |

### Health and Safety Information

For recommendations on safe handling and use of this product, please refer to the Material Safety Data Sheet via <http://w3.conocophillips.com/NetMSDS>.

Typical properties are average values only and do not constitute a specification. Minor variations that do not affect product performance are to be expected during normal manufacture, and at different blending locations. Product formulations are subject to change without notification.

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## Super ATF

Super ATF is a high-quality transmission fluid recommended for use in most GM and many Ford automatic transmissions in 2005 and earlier model-year vehicles that are no longer under warranty. It is formulated to provide the proper frictional characteristics for smooth, quiet shifting in electronically controlled automatic transmissions. It has excellent oxidation resistance for long fluid life, excellent low-temperature properties, protects against wear and helps minimize the formation of sludge and varnish.

### **Applications**

Super ATF is recommended for service fill in GM and Ford automatic transmissions in 2005 and earlier model-year vehicles that are no longer under warranty and do **not** require a MERCON®SP, MERCON®V, Type F or Type T-IV fluid. It also is recommended for use in import vehicles where the automaker specifies the same transmission fluid as used in GM vehicles for 2005 and earlier model-years. It also meets the performance requirements of Allison C-4.

Super ATF may be used in industrial and mobile hydraulic systems operating over a wide temperature range.

Super ATF is **not** recommended for use in automatic transmissions that require a GM DEXRON®-VI or Ford MERCON®V fluid for warranty coverage, or in continuously variable transmissions (CVTs).

### **Features/Benefits**

- Proper frictional properties for smooth shifting and excellent anti-shudder performance
- Excellent thermal stability and oxidation resistance for long fluid life
- Excellent low-temperature properties
- Protects against wear
- Minimizes sludge and varnish deposits
- Protects against rust and corrosion
- Good seal compatibility
- Suitable for both automotive and industrial applications

**Transmission Fluid  
For Older GM And  
Ford Automatic  
Transmissions**

### **Contact Information**

**U.S. Customer  
Service:  
1-800-822-6457**

**U.S. Technical  
Services Hot Line:  
1-800-766-0050**

**International:  
+1-832-486-3363**

**E-mail address:  
lubricants@  
conocophillips.com**

<http://lubricants.conocophillips.com>

600 N. Dairy Ashford • 2W9000 • Houston, TX 77079



## Super ATF

### Typical Properties

|  |           |
|--|-----------|
| Density, g/cm <sup>3</sup> @ 15.6°C (60°F) | 0.862     |
| Color, Visual                              | Red       |
| Flash Point (COC), °C (°F)                 | 206 (403) |
| Pour Point, °C (°F)                        | -57 (-71) |
| Viscosity,                                 |           |
| cP @ -40°C (Brookfield)                    | 17,000    |
| cSt @ 40°C                                 | 35.4      |
| cSt @ 100°C                                | 7.6       |
| SUS @ 100°F                                | 179       |
| SUS @ 210°F                                | 51.6      |
| Viscosity Index                            | 193       |
| Zinc, wt %                                 | <0.003    |

### Health and Safety Information

For recommendations on safe handling and use of this product, please refer to the Material Safety Data Sheet via <http://w3.conocophillips.com/NetMSDS>.

Due to continual product research and development, the information contained herein is subject to change without notification.

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## PowerDrive™ Fluid

Conoco PowerDrive™ Fluid is a shear stable transmission and drive train fluid specially designed to meet and exceed the stringent performance requirements of the Caterpillar TO-4 specification. It provides improved friction and antiwear performance compared with older API CD/TO-2 quality fluids, resulting in longer equipment life and reduced risk of field failure. PowerDrive™ Fluid has excellent oxidation stability, outstanding seal and friction material compatibility, and superior rust and corrosion preventative properties. Its balanced frictional properties minimize brake noise, clutch slippage under heavy load, weakening of the binder in paper materials, and embrittlement of elastomeric materials. The SAE 10W and 30 viscosity grades also meet the performance requirements of Allison C-4.

### **Applications**

PowerDrive™ Fluid is recommended for use in powershift transmissions, hydrostatic transmissions, torque converters, final drives, and hydraulic systems of Caterpillar and other off-highway equipment. It also is recommended for use in certain heavy-duty commercial automatic and manual transmissions where an Allison C-4 or TO-4 quality fluid is specified.

PowerDrive™ Fluid meets or exceeds the requirements of:

- Allison C-4 (SAE 10W, 30)
- Caterpillar TO-4, TO-2 (obsolete)
- Dana Spicer Transmissions (SAE 30, 50)
- Eaton Fuller Transmissions (SAE 30, 50)
- Euclid Equipment
- Komatsu Equipment
- Vickers M-2950-S
- ZF TE-ML 03C for Torque Converter Transmissions (SAE 10W, 30)

**Transmission And  
Drive Train Fluid  
For Caterpillar  
TO-4 Applications**

**U.S. Technical  
Services Hot line:  
1-800-255-9556**

**U.S. Customer  
Service:  
1-800-640-1956**

**International:  
+1-832-486-3363**

**Asia-Pacific:  
tel: (65) 6536-0010  
fax: (65) 6536-0012**

**E-mail address:  
*conocolubricants@  
conocophillips.com***

***www.lubes.conoco.com***

**600 N. Dairy Ashford • 2W9000 • Houston, TX 77079**



### **Outstanding Features**

- Controlled frictional properties for smooth shifting and reduced brake chatter
- Outstanding oxidation resistance for long fluid life
- Excellent wear protection for clutches, gears and hydraulic pumps
- Excellent shear stability
- Superior rust and corrosion protection
- Outstanding compatibility with seals and friction materials
- Excellent low-temperature fluidity
- Good foam resistance

### **PowerDrive™ Fluid Typical Properties**

| <b>SAE GRADE</b>                           | <b>10W</b> | <b>30</b> | <b>50</b> | <b>60</b> |
|--|------------|-----------|-----------|-----------|
| Density, g/cm <sup>3</sup> @ 15.6°C (60°F) | 0.875      | 0.883     | 0.894     | 0.897     |
| Color, ASTM D1500                          | 2.0        | 2.0       | 4.0       | 5.5       |
| Flash Point (COC), °C (°F)                 | 213 (415)  | 233 (451) | 242 (468) | 281 (538) |
| Pour Point, °C (°F)                        | -36 (-33)  | -30 (-22) | -21 (-6)  | -12 (10)  |
| Viscosity,                                 |            |           |           |           |
| cP @ -35°C (Brookfield)                    | 36,000     | —         | —         | —         |
| cSt @ 40°C                                 | 43         | 98        | 227       | 318       |
| cSt @ 100°C                                | 6.6        | 11.5      | 19.1      | 23.8      |
| SUS @ 100°F                                | 221        | 510       | 1,202     | 1,694     |
| SUS @ 210°F                                | 48.3       | 65.8      | 97.3      | 118       |
| Viscosity Index                            | 105        | 97        | 94        | 95        |
| Ash, Sulfated, ASTM D874, wt %             | 1.2        | 1.2       | 1.2       | 1.2       |
| Total Base Number, ASTM D2896              | 8.0        | 8.0       | 8.0       | 8.0       |
| Zinc, wt %                                 | 0.12       | 0.12      | 0.12      | 0.12      |

Due to continual product research and development, the information contained herein is subject to change without notification.

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# CHEVRON MULTI-VEHICLE ATF

## CUSTOMER BENEFITS

Chevron Multi-Vehicle ATF delivers value through:

- **Lower inventory cost** — One ATF can be used for the vast majority of automatic transmissions on the road today.
- **Longer equipment life** — Advanced formula protects against wear, corrosion, and the formation of lacquers, sludge, or other harmful deposits.
- **Longer oil life** — Premium base oil and extra oxidation inhibitors result in increased oil service life.
- **Smoother operation** — Carefully chosen friction modifiers allow for smooth shifting, efficient power transfer, and anti-shudder protection.

## FEATURES

Chevron Multi-Vehicle ATF is an advanced technology, high performance, multipurpose power transmission fluid. It is fully approved and licensed under the MERCON<sup>1</sup>® V and Allison C4 specifications. In addition, it is suitable for service fill of many transmissions manufactured by North American, Asian, and European OEMs.

It is formulated with premium, severely hydroprocessed base stocks and carefully crafted additives that provide oxidation and thermal stability, friction control, load-carrying ability, corrosion and wear protection. It helps protect against the formation of sludge, varnish, other harmful deposits, and foam.

Compared to conventional ATFs, Chevron Multi-Vehicle ATF has exceptional low temperature flow properties and enhanced protection against viscosity breakdown at high temperatures. It also has superior oxidation and thermal stability, resulting in longer service life.

Under the most severe operating conditions, this fluid:

- Maintains friction control for smooth shift action and prevention of shudder
- Retains high temperature viscosity resulting in increased oil film thickness and better wear protection

- Greatly extends the time to transmission overhauls due to sludge, corrosion, or wear of gears, bearings, and clutches.

## APPLICATIONS

Chevron Multi-Vehicle ATF is recommended for all applications that call for the former DEXRON<sup>2</sup> III(H) fluid and for MERCON<sup>®</sup> V and Allison C4 fluids. It has passed the performance test requirements of ZF and Voith.

Chevron Multi-Vehicle ATF is suitable for service fill of the vast majority of vehicles made in North America. It will also work well in many Japanese, Korean, and European vehicles such as those made by **Acura, BMW, Daewoo, Honda, Hyundai, Infiniti, Isuzu, Jaguar, KIA, Land Rover, Lexus, Mazda, Mitsubishi, Nissan, Saab, Subaru, Suzuki, Toyota, Volkswagen, and Volvo.**

Chevron Multi-Vehicle ATF has the following qualifications:

|                      |             |
|----------------------|-------------|
| Allison Transmission | C4-31632005 |
| Ford MERCON V        | M5050901    |
| Voith                | G607        |
| ZF                   | TE-ML 14B   |

Chevron Multi-Vehicle ATF has been tested for performance in Japanese transmissions under the JASO 1A ATF standard. The product will deliver the shifting performance and superior anti-shudder durability which is desired by Japanese and Korean automakers.

Always check your owner's manual to determine the proper automatic transmission fluid for your vehicle.

Chevron Multi-Vehicle ATF is not suitable for a limited number of special applications, such as:

- Ford transmissions manufactured before 1977 and some pre-1982 transmissions require a Type F fluid such as Chevron ATF Type F (no friction modifier)
- Vehicles with continuously variable transmissions (CVTs) require special fluids.

1. MERCON V is a registered trademark of Ford Motor Company.

2. DEXRON is a registered trademark of General Motors Corporation.

Always confirm that the Chevron product selected is consistent with the original equipment manufacturer's recommendation for the equipment operating conditions and customer's maintenance practices.



**Chevron Multi-Vehicle ATF — Continued**

Chevron Multi-Vehicle ATF can be used in these applications:

| ATF Specification         | Chevron Multi-Vehicle ATF | Other ATF |
|---------------------------|---------------------------|-----------|
| Esso Type LT 71141 ATF    | √                         |           |
| DEXRON® II                | √                         |           |
| DEXRON® III               | √                         |           |
| ATF+3                     |                           | <i>a</i>  |
| ATF+4®*                   |                           | <i>a</i>  |
| Ford Type-F               |                           | <i>b</i>  |
| Ford Type-G               |                           | <i>c</i>  |
| Allison C4                | √                         |           |
| MERCON®                   | √                         |           |
| MERCON® V                 | √                         |           |
| Allison TES-295           |                           | <i>d</i>  |
| Honda ATF-Z1              | √                         |           |
| Idemitsu K17              | √                         |           |
| Isuzu Genuine             | √                         |           |
| Nissan Matic J            | √                         |           |
| Nissan Matic K            | √                         |           |
| Shell 3403                |                           | <i>d</i>  |
| Shell ATF M-1375.4        | √                         |           |
| Shell LA2634              | √                         |           |
| Mitsubishi SP-II          | √                         |           |
| Mitsubishi SP-III         | √                         |           |
| Texaco 7045-E             | √                         |           |
| Texaco ETL-8072 B         | √                         |           |
| Texaco N402               | √                         |           |
| VW G 052 990 (A2)         |                           | <i>d</i>  |
| Synthetic MERCON®         |                           | <i>d</i>  |
| Volvo Part #1161540-8     | √                         |           |
| Audi Part #G 052 025-A2   | √                         |           |
| Toyota JWS 3309/Type T-IV | √                         |           |
| Toyota Type-T             | √                         |           |

- a. Use Chevron ATF+4® Automatic Transmission Fluid
- b. Use Chevron ATF Type F
- c. Use Chevron ATF Type F — for non-severe duty
- d. Use Chevron Synthetic Automatic Transmission Fluid Heavy Duty

\* ATF+4 is a registered trademark of Chrysler LLC.

**TYPICAL TEST DATA**

|   |             |
|---|-------------|
| <i>Product Number</i>                               | 226531      |
| <i>MSDS Number</i>                                  | 13641       |
| API Gravity   | 32.5        |
| Viscosity, Kinematic<br>cSt at 40°C<br>cSt at 100°C | 37.6<br>8.4 |
| Viscosity, Saybolt<br>SUS at 100°F<br>SUS at 210°F  | 189<br>54   |
| Viscosity, Brookfield<br>cP at -40°C                | 12,100      |
| Viscosity Index                                     | 210         |
| Flash Point, °C(°F)                                 | 180(356)    |
| Pour Point, °C(°F)                                  | -45(-49)    |
| Color   | Red         |

Typical test data are average values only. Minor variations which do not affect product performance are to be expected in normal manufacturing.

## Mobilfluid 424

### Multipurpose Tractor Lubricant

#### Product Description

Mobilfluid 424 is an extra high performance multipurpose tractor lubricant engineered to meet or exceed transmission and hydraulic fluid requirements. The advanced technology in Mobilfluid 424 is designed to optimise the performance of agricultural and commercial tractors operating in a wide range of environments and conditions.

Mobilfluid 424 combines select base oils and an advanced additive package to deliver the varied lubricant performance properties required in severe duty applications of agricultural and construction equipment drive trains. It is particularly well suited for reducing wet brake and Power Take-Off (PTO) chatter.

#### Features and Benefits

Next generation technology has vastly improved the performance capabilities of heavy-duty equipment in terms of load, speed, control, and reliability through innovative power train designs. These designs have markedly changed and increased the requirements of power train fluids to deliver higher levels of performance and productivity while reducing operating costs. Friction control, wear protection, thermal stability, shear stability, rust and corrosion protection, and pumpability are features that must be optimally balanced to provide extended clutch life, maximum drawbar loading, and maintain operations on uneven terrain over a wide range of ambient temperatures. Mobilfluid 424 delivers exceptional performance in today's power train transmissions, drive axles, clutches, PTOs and hydraulic systems. The key benefits include:

| Features  | Advantages and Potential Benefits  |
|---|--|
| Enhanced frictional properties  | Optimised clutch and PTO performance Improved wet brake and PTO chatter control            |
| Compatible with latest clutch materials and elastomers                | Longer clutch life and reduced leakage   |
| High viscosity index and shear stability                              | Consistent operating response  |
| Excellent protection against rust, corrosion and yellow metal etching | Protects equipment in wet or humid environments and prevents premature wear                |
| Excellent low temperature properties                                  | Responsive operation and effective lubrication in cold weather applications                |
| Strong anti-wear and extreme pressure properties                      | Reduces wear, extends equipment life, and reduces maintenance costs                        |
| Excellent thermal and oxidation stability                             | Reduces deposits, extends seal life, and increases service life of equipment and lubricant |
| Multipurpose capability   | Simplifies inventory and reduces misapplication problems                                   |
| Good filterability  | Keeps systems clean and operating smoothly   |

#### Applications

- Heavy-duty transmissions, differentials, final drives, hydraulic systems, power steering systems, wet brakes, PTOs and hydrostatic drives
- Recommended in off-highway industries including: agriculture, construction, and quarrying
- Recommended for top-up and refill of systems



- Suitable for commercial transmission applications requiring Type A (Suffix A), Dexron and Type F fluids. Do not use in passenger car automatic transmissions
- May be used in applications requiring API GL-4 or SAE 80W grade lubricants in all gear applications except hypoid gear designs
- Outstanding replacement for engine oils recommended for hydraulic and transmission systems

## Specifications and Approvals

### Mobilfluid 424 meets or exceeds the following industry and builder specifications:

|                                  |   |
|----------------------------------|---|
| API GL-4                         | X |
| Ford New Holland FNHA-2-C-201.00 | X |
| Kubota UDT                       | X |
| Volvo WB 101/BM                  | X |
| CNH MAT 3525                     | X |

### Mobilfluid 424 is recommended for use in applications requiring:

|   |   |
|---|---|
| Allison C-4 (Agriculture Applications Only) | X |
| Vickers 35VQ25                              | X |
| Caterpillar TO-2                            | X |
| Denison HF-0, HF-1, HF-2 (Pumps Only)       | X |
| Ford New Holland ESN-M2C134-D               | X |
| J. I. Case MS 1204-07/09                    | X |
| Massey Ferguson MF 1135, 1139, 1141         | X |
| UTTO  | X |
| AGCO Powerfluid 821 XL                      | X |
| John Deere JDM J20                          | X |

## Typical Properties

### Mobilfluid 424

|                                    |        |
|------------------------------------|--------|
| Viscosity, ASTM D 445              |        |
| cSt @ 40°C                         | 55     |
| cSt @ 100°C                        | 9.3    |
| Brookfield Viscosity, cP (@ -35°C) | 55,000 |
| Viscosity Index, ASTM D 2270       | 145    |
| Pour Point, °C, ASTM D 97          | -42    |
| Flash Point, °C, ASTM D 92         | 198    |
| Density @ 15°C, kg/l, ASTM D 4052  | 0.88   |



## **Health and Safety**

Based on available information, this product is not expected to produce adverse effects on health when used for the intended application and the recommendations provided in the Material Safety Data Sheet (MSDS) are followed. MSDSs are available upon request through your sales contract office, or via the Internet. This product should not be used for purposes other than its intended use. If disposing of used product, take care to protect the environment.

*The Mobil logotype, the Pegasus design, and Mobilfluid 424 are trademarks of Exxon Mobil Corporation, or one of its subsidiaries.*



# DELO<sup>®</sup> 710 LE

## SAE 20W-40

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### PRODUCT DESCRIPTION

Delo<sup>®</sup> 710 LE is an industry leading, premium diesel engine oil for use in EMD and GE engines in marine, railroad and power generation applications.

### CUSTOMER BENEFITS

Delo 710 LE SAE 20W-40 delivers value and long engine life through:

- Excellent Wear Control
- Helps maximize engine cleanliness
- Exhaust system and turbocharger deposit control
- Excellent Oxidation stability, soot dispersancy and base retention for long oil life with newly designed low consumption power assemblies
- Helps provide a 15% to 25%<sup>1</sup> oil consumption reduction vs. single grade engine oils
- Formulated specifically for engines using Low Sulfur and Ultra Low Sulfur Fuels

### FEATURES

Delo 710 LE is approved by EMD and GE and is specifically formulated for use with Low Sulfur Diesel (LSD) and Ultra Low Sulfur Diesel (ULSD) fuels and new low emission engines.

Delo 710 LE SAE 20W-40 uses premium quality base oils that are exceptionally pure, with extremely low levels of sulfur, nitrog

Delo 710 LE employs newly developed dispersants, detergents and oxidation inhibitors to promote outstanding oil life and minimal ash content. In addition, the 20W-40 viscosity grade can reduce oil consumption 15-25%<sup>1</sup> vs single grade engine oils. All of these features make Delo 710 LE an excellent

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1. Oil Consumption reduction will vary depending on engine duty cycle.

Product(s) manufactured in the USA.

Always confirm that the product selected is consistent with the original equipment manufacturer's recommendation for the equipment operating conditions and customer's maintenance practices.

A **Chevron** company product

1 March 2010  
RRL-27

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lubricant for engines using LSD and ULSD fuels with or without exhaust after-treatment equipment.

### APPLICATIONS

Delo 710 LE is recommended for diesel engines using LSD or ULSD fuels where Zn-free oils are required in the following applications:

- Railroad
- Marine
- Offshore Drilling and Production
- Stationary Power Generation

#### Delo 710 LE SAE 20W-40 benefits:

- Designed for low and ultra low sulfur fuels
- Formulated for modern EMD and GE engines used in a wide range of railroad, inland marine and stationary engines
- Uses an optimized additive formulation with reduced ash and advanced dispersant technology
- Helps minimize exhaust system and turbo-charger deposits
- Zinc free, Non-chlorinated
- Compatible with earlier generation EMD and GE approved engine oils
- Miscible with competitive railroad type oils and additive systems when engine manufacturers recommended practices are followed
- LMOA Generation 5 approved product
- EMD Generation V approved for use in engines operating under EMD factory warranty
- General Electric Generation IV Long Life approved

**TYPICAL TEST DATA**

| <b>SAE Grade</b>                                    | <b>20W-40</b> |
|---|---------------|
| <i>Product Number</i>                               | 235080        |
| <i>MSDS Number</i>                                  | 24588         |
| API Gravity   | 26.8          |
| Viscosity, Kinematic<br>cSt at 40°C<br>cSt at 100°C | 136.4<br>15.5 |
| Viscosity Index                                     | 117           |
| Flash Point, °C(°F)                                 | 230(446)      |
| Pour Point, °C(°F)                                  | -24(-11.2)    |
| Sulfated Ash, wt %                                  | 1.0           |
| Base Number, ASTM D2896                             | 9.2           |
| Zinc, ppm   | <10           |

Minor variations in product typical test data are to be expected in normal manufacturing.

Always confirm that the product selected is consistent with the original equipment manufacturer's recommendation for the equipment operating conditions and customer's maintenance practices.

1 March 2010  
RRL-27



# DELO<sup>®</sup> 400 LE SYNTHETIC SAE 5W-40

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## PRODUCT DESCRIPTION

"The Delo<sup>®</sup> Performance Advantage"

Delo<sup>®</sup> 400 LE Synthetic SAE 5W-40 is a mixed-fleet motor oil recommended for naturally aspirated and turbocharged four-stroke diesel engines and four-stroke gasoline engines in which the API CJ-4 or API SM service categories and SAE 5W-40 viscosity grades are recommended.

## CUSTOMER BENEFITS

Delo 400 LE Synthetic SAE 5W-40 is an API CJ-4 heavy duty engine oil specifically formulated for 2007 Exhaust Gas Recirculation (EGR) with Diesel Particulate Filter (DPF) and 2010 EGR with DPF and EGR/Selective Catalytic Reduction (SCR) with DPF low emission engines. It is fully compatible with previous engine models and previous API Oil Service Categories. It delivers value through:

- **Low Viscosity Synthetic Base Stock** — Promotes consistent cold engine starting. Optimal for gasoline and diesel engines operating in sub-zero temperature.
- **Minimized operating costs** — Exceptional soot dispersancy and wear control protects cylinders, pistons, rings, and injectors against wear and corrosion, promoting optimum service life and minimal maintenance. Contributes to maximum vehicle utilization and minimal downtime.
- **Excellent emission control system life** — Promotes optimum Diesel Particulate Filter (DPF) life for minimal downtime and cleaning, thus minimizing maintenance costs.
- **Managed inventory costs** — Delo 400 LE Synthetic SAE 5W-40 is compatible with previous API Oil Service Categories. Suitable for use in gasoline engines and naturally aspirated or turbocharged electronically controlled/low emission diesel engines. One oil that meets the engine

performance requirements of most North American and European engine manufacturers. One oil that allows users with a wide mix of engine brands to enjoy simplified inventory and dispensing systems that help save money, space and handling time.

- **Warranty Plus protection** — Bumper-to-bumper warranty protection from the engine to the drive train. Payment for Chevron lubricant-related damage to your equipment, including parts and labor.<sup>1</sup> Problem resolution and technical advice from Chevron's lubrication experts.
- **Access to Chevron's lubrication and industry knowledge** — Helps maximize the bottom line business results of trucking industry professionals.

## FEATURES

Delo 400 LE Synthetic SAE 5W-40 is a 100% synthetic engine oil which exceeds industry and engine manufacturers' performance requirements.

It is formulated using the most advanced additive technology available to provide outstanding protection.

Delo 400 LE Synthetic SAE 5W-40 is an optimal blend of the latest dispersant, detergent, oxidation inhibition, antiwear, corrosion inhibition, viscosity improver, and defoaming additive technologies.

Delo 400 LE Synthetic SAE 5W-40 meets the most stringent EGR soot and particulate control requirements.

Delo 400 LE Synthetic SAE 5W-40 has been specifically designed to meet the demands of EGR and EGR/SCR engines while at the same time providing the highest level of performance in conventional engines and other engine technologies like Caterpillar ACERT.

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<sup>1</sup> See Warranty Plus for details and restrictions.

Product(s) manufactured in the USA.

Always confirm that the product selected is consistent with the original equipment manufacturer's recommendation for the equipment operating conditions and customer's maintenance practices.

A **Chevron** company product

8 March 2010  
HDMO-27

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## FUNCTIONS

Delo® 400 LE Synthetic SAE 5W-40 helps keep piston rings clean and free for optimum combustion pressure and minimal wear. Delo 400 LE Synthetic SAE 5W-40 minimizes valve and piston crown land deposits, thus managing oil consumption. Its high level of ashless dispersants keeps fuel soot in suspension and helps to avoid filter plugging, cylinder head sludge, abrasive wear, viscosity increases, and oil gelation. These problems could cause excessive engine wear and bearing failure, without prior warning.

Optimized additive chemistries combined with synthetic base stocks control oxidation, sludge, and undue thickening between oil drains. Delo 400 LE Synthetic SAE 5W-40's antiwear technologies protect against valve train wear and scuffing of highly loaded parts operating under boundary lubrication. A defoaming additive helps prevent air entrapment.

## APPLICATIONS

Delo 400 LE Synthetic SAE 5W-40 is a mixed-fleet motor oil recommended for naturally aspirated and turbocharged four-stroke diesel engines and four-stroke gasoline engines in which the API CJ-4 or API SM service categories and SAE 5W-40 viscosity grades are recommended. It is formulated for engines operating under severe service and a wide range of climatic conditions.

Delo 400 LE Synthetic SAE 5W-40 is excellent for use in new advanced engines developed to meet 2007 and 2010 emissions standards and in engines equipped with features like; four-valve heads, supercharging, turbocharging, direct injection, shorter piston crowns, higher power density, intercooling, full electronic management of fuel and emissions systems, exhaust gas recirculation, and exhaust particulate filters.

It is formulated for exceptional performance with many fuels, including low sulfur and ultra low sulfur diesel fuels.

This product is recommended for use in older engines, as well as in today's most modern low emission designs.

This product is recommended for use in Caterpillar engines in off-highway or construction applications which require an API CJ-4 Service Category after January 1, 2007.

**Delo 400 LE Synthetic SAE 5W-40 is approved for:**

- **API Service Categories** CJ-4, CI-4 PLUS, CI-4, SM
- **ACEA European Service Categories** E7
- **Cummins** CES 20081
- **Daimler** MB 228.31
- **Detroit Diesel Corp.** Power Guard Oil Specification 93K218, 93K214
- **Mack** EO-O Premium Plus 07
- **Renault** RLD-3
- **Volvo** VDS-4

**Delo 400 LE Synthetic SAE 5W-40 meets the performance requirements of:**

- **Caterpillar** ECF-3, ECF-2
- **MTU** Category 1

## TYPICAL TEST DATA

| SAE Grade   | 5W-40        |
|---|--------------|
| Product Number                                      | 271207       |
| MSDS Number   | 24606        |
| API Gravity   | 33.3         |
| Viscosity, Kinematic<br>cSt at 40°C<br>cSt at 100°C | 88.5<br>14.6 |
| Viscosity, Cold Crank, C/Poise                      | -30/62.5     |
| Viscosity Index                                     | 168          |
| Flash Point, °C(°F)                                 | 232(450)     |
| Pour Point, °C(°F)                                  | -42(-43)     |
| Sulfated Ash, wt %                                  | 1.0          |
| Base Number, ASTM D2896                             | 10.3         |
| Phosphorus, wt %                                    | 0.115        |
| Sulfur, wt %  | 0.29         |
| Zinc, wt %  | 0.127        |

Minor variations in product typical test data are to be expected in normal manufacturing.

Always confirm that the product selected is consistent with the original equipment manufacturer's recommendation for the equipment operating conditions and customer's maintenance practices.

## Mobil Delvac Synthetic Gear Oil 75W-90, 80W-140

### Supreme Performance Commercial Gear Lubricants

#### Product Description

Mobil Delvac Synthetic Gear Oil 75W-90 and 80W-140 are synthetic drivetrain lubricants engineered to meet the most demanding extended drain and warranty requirements. These products are designed for use in heavy-duty drivetrains that require gear lubricants with relatively high viscosity and excellent load-carrying capability and where extreme pressures and shock loading are expected. Mobil Delvac Synthetic Gear Oil 75W-90 and 80W-140 incorporate the latest technology in synthetic basestocks and advanced additives providing significant advantages over mineral gear oils.

The state-of-the-art technology in Mobil Delvac Synthetic Gear Oil 75W-90 and 80W-140 delivers unsurpassed performance for low and high temperature application, protection against thermal degradation and oxidation, reduced wear and corrosion, improved shear stability, extended service capability, and excellent fuel economy. These products meet API service MT-1/GL-5 EP gear oil service classification and perform at the MIL-PRF-2105E level.

The outstanding performance of this product is confirmed by its approval for final drives covered by Eaton Roadranger (E500) and ArvinMeritor Extended Warranties of 750,000 miles, with extended oil drains of 500,000 miles. They are also approved by Mack against GO-J Plus (75W-90) and GO-J (80W-140) extended service classifications.

#### Features and Benefits

Today's technology has vastly improved the performance capabilities of heavy-duty on and off-highway equipment load, torque, speed, and control through innovative drivetrain designs. These designs have changed and increased the requirements of lubricants to deliver this higher level of performance, increase productivity, and reduce operating costs. For heavy-duty final drives, friction control, wear protection, thermal stability, shear stability, rust and corrosion prevention, and seal protection are features that must be optimally balanced to provide extended gear and seal life, smooth operation, improved fuel economy and high load high torque capability over a wide range of applications. The key benefits of Mobil Delvac Synthetic Gear Oil 75W-90 and 80W-140 include:

| Features   | Advantages and Potential Benefits   |
|--|---|
| Exceptional thermal stability and resistance to high temperature oxidation       | Extended gear and bearing life due to minimal deposits<br>Longer seal life              |
| Outstanding protection against low speed/high torque wear and high speed scoring | Increased load-carrying capability. Reduced maintenance costs and longer equipment life |
| Exceptional shear stability  | Retains viscosity and film strength under severe operating conditions to prevent wear   |
| Excellent rust, staining, and corrosion protection of copper and its alloys      | Reduced wear and longer component life  |



| Features   | Advantages and Potential Benefits                 |
|--|---|
| Enhanced friction reduction properties                   | Improved fuel economy and reduced operating costs |
| Outstanding low temperature fluidity versus mineral oils | Reduced wear and ease of start-up                 |
| Good resistance to foaming                               | Maintains film strength for reliable lubrication  |
| Compatible with typical automotive seals and gaskets     | Minimum leakage and reduced contamination         |

## Applications

- Heavy-duty manual transmissions, axles and final drives requiring API GL-5 and MT-1 performance
- On-highway light and heavy-duty trucks, busses and vans
- Off-highway industries including: construction, mining, quarrying, and agriculture
- Other heavy-duty industrial gear drives including hypoid and worm gears operating under conditions where high speed/shock load, high speed/low torque, and/or low speed/high torque conditions prevail
- Mobil Delvac Synthetic Gear Oil 75W-90 and 80W-140 are intended for initial fill, topping-off or refilling differentials, final drives, transfer cases and other gear applications where lubricants meeting MIL-PRF-2105E, API Service GL-5 , EP gear lubricants are recommended
- Recommended for equipment such as winch reduction gears and crawler vehicle propulsion gear drives that are exposed to severe low temperatures
- Use as a companion with Mobil Delvac Synthetic Transmission Fluid 50 in transmissions for maximum drive train life, efficiency and fuel economy improvement
- Recommended where extended service intervals and warranties are required
- Not recommended for applications requiring API GL-4 Level performance
- Not intended for automatic, manual or semiautomatic transmissions for which engine oil or automatic transmission fluids are recommended

## Specifications and Approvals

| Mobil Delvac Synthetic Gear Oil meets the following industry and builder specifications: | 75W-90 | 80W-140 |
|--|--------|---------|
| API GL-5/MT-1  | X      | X       |
| SAE J2360  | X      | X       |
| Scania STO 1:0   | X      | X       |

| Mobil Delvac Synthetic Gear Oil has the following builder approvals: | 75W-90 | 80W-140 |
|--|--------|---------|
| Dana SHAES 429   | X      | X       |
| Eaton Roadranger E500TM SHAES 256 Rev. A                             |        | X       |
| Eaton Roadranger E500TM SHAES 256 Rev. C                             | X      |         |
| Mack GO-J Plus   | X      |         |
| Mack GO-J  |        | X       |
| ArvinMeritor 0-76N   | X      | X       |
| MB-Approval 235.8  | X      |         |
| International TMS-6816   | X      | X       |



| <b>Mobil Delvac Synthetic Gear Oil has the following military quality level:</b> | <b>75W-90</b> | <b>80W-140</b> |
|--|---------------|----------------|
| MIL-PRF 2105E  | X             | X              |

### Typical Properties

| <b>Mobil Delvac Synthetic Gear Oil</b> | <b>75W-90</b> | <b>80W-140</b> |
|--|---------------|----------------|
| SAE Grade                              | 75W-90        | 80W-140        |
| Viscosity, ASTM D 445                  |               |                |
| cSt @ 40°C                             | 120           | 310            |
| cSt @ 100°C                            | 15.9          | 31.2           |
| Viscosity Index, ASTM D 2270           | 140           | 139            |
| Pour Point, °C, ASTM D 97              | -48           | -36            |
| Flash Point, °C, ASTM D 92             | 205           | 210            |
| Density @ 15°C kg/l, ASTM D 4052       | 0.859         | 0.870          |

### Health and Safety

Based on available information, this product is not expected to produce adverse effects on health when used for the intended application and the recommendations provided in the Material Safety Data Sheet (MSDS) are followed. MSDS's are available upon request through your sales contract office, or via the Internet. This product should not be used for purposes other than its intended use. If disposing of used product, take care to protect the environment.

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# Mobilube HD LS 80W-90

## Limited-Slip Gear Lubricant

### Product Description

Mobilube HD LS 80W-90 is an extra high performance, automotive lubricant formulated from select base oils and an advanced additive system specifically for limited-slip differentials. This lubricant is engineered for performance in heavy-duty limited-slip differentials, axles, and final drives where extreme pressures and shock loading are expected providing API GL-5 level performance. Mobilube HD LS 80W-90 provides exceptional chemical and thermal stability at elevated bulk oil temperatures.

### Features and Benefits

Today's truck and car equipment applications place higher performance demands on drivetrain lubricants. Higher speeds, higher torque, heavier loads, and limited-slip capability require improved formulations to maximise differential life and optimise performance. Longer service intervals place additional demands on the gear lubricant. Mobilube HD LS 80W-90 gear lubricant is engineered to meet these challenges. The key benefits include:

| <b>Features</b>  | <b>Advantages and Potential Benefits</b>                                    |
|--|---|
| Excellent frictional properties  | Effective limited-slip performance  |
| Good thermal stability and resistance to high temperature oxidation                      | Extended gear and bearing life due to minimal deposits and longer seal life |
| Outstanding protection against low speed/high torque wear and against high speed scoring | Increased load carrying capability reducing operating costs                 |
| Excellent rust, staining, and corrosion protection                                       | Reduced wear and maintenance costs  |
| Effective low temperature lubrication  | Reduced wear and ease of start-up   |
| Good resistance to foaming   | Maintains film strength for reduced wear                                    |
| Compatible with typical automotive seals and gaskets                                     | Minimum leakage and reduced contamination                                   |

### Applications

- Limited-slip differentials, axles, and final drives requiring API GL-5 level performance
- Passenger cars, on-highway passenger light and heavy duty trucks, busses and vans
- Off-highway industries including: construction, quarrying, and agriculture
- Other industrial and automotive applications involving hypoid and other gears operating under conditions where high speed/shock load, high speed/low torque, and/or low speed/high torque conditions prevail

- Mobilube HD LS 80W-90 gear lubricant is intended for initial fill, topping-off, and refill of enclosed automotive type gearing where SAE 80W-90 limited-slip gear lubricants are recommended
- Do not use in transmissions or transaxles for which engine oil or automatic transmission fluids are recommended

## Specifications and Approvals

**Mobilube HD LS 80W-90 meets or exceeds  
the following industry specification:**

API GL-5 X

## Typical Properties

| <b>Mobilube HD LS</b>            |        |
|----------------------------------|--------|
| SAE Grade                        | 80W-90 |
| Viscosity, ASTM D 445            |        |
| cSt @ 40°C                       | 141    |
| cSt @ 100°C                      | 14.8   |
| Viscosity Index, ASTM D 2270     | 105    |
| Pour Point, °C, ASTM D 97        | -30    |
| Flash Point, °C, ASTM D 92       | 230    |
| Density @ 15°C kg/l, ASTM D 4052 | 0.90   |

## Health and Safety

Based on available information, this product is not expected to produce adverse effects on health when used for the intended application and the recommendations provided in the Material Safety Data Sheet (MSDS) are followed. MSDS's are available upon request through your sales contract office, or via the Internet. This product should not be used for purposes other than its intended use. If disposing of used product, take care to protect the environment.

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Fairfax, VA 22037

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# **Mobil**

## **Mobil DEXRON-VI ATF**

### **Automatic Transmission Fluid**

### **Product Description**

Mobil DEXRON-VI ATF is a high performance, synthetic blend formulation that meets the stringent requirements of GM's DEXRON-VI specification and provides warranty protection for 2006 and newer GM vehicles. It also provides improved performance in older GM vehicles, wherever DEXRON is specified.

### **Features and Benefits**

Advantages offered by Mobil DEXRON-VI ATF over Dexron/Mercon type transmission fluids:

- Extended fluid life
- Improved oxidation and thermal stability
- Optimized frictional properties that provide smooth gear shifting during low temperature operation and help prevent transmission vibration
- Outstanding resistance against sludge and deposit formation
- Improved anti-wear protection which contributes to extended transmission life
- Outstanding low temperature performance

### **Applications**

Mobil DEXRON-VI ATF provides warranty protection for 2006 and newer GM vehicles. It also provides improved performance in older GM vehicles, wherever DEXRON is specified.

### **Specifications and Approvals**

**Mobil DEXRON-VI ATF**  
General Motors' DEXRON-VIX

### **Typical Properties**

**Mobil DEXRON-VI ATF**



## **Mobil DEXRON-VI ATF**

|                      |           |
|----------------------|-----------|
| Viscosity            |           |
| cSt @ 40°C           | 29.5      |
| cSt @ 100°C          | 5.83      |
| cP @ -40°C           | 11,500    |
| Viscosity Index      | 145       |
| Flash Point, °C (°F) | 220 (428) |
| Gravity, API         | 35.76     |
| Color                | Red       |

## **Health and Safety**

Based on available information, this product is not expected to produce adverse effects on health when used for the intended application and the recommendations provided in the Material Safety Data Sheet (MSDS) are followed. MSDS's are available upon request through your sales contract office, or via the Internet. This product should not be used for purposes other than its intended use. If disposing of used product, take care to protect the environment.

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**Mobil**

# Mobil Delvac Synthetic ATF

**Advanced Technology Synthetic Automatic Transmission Fluid**

## Product Description

Mobil Delvac Synthetic ATF is a fully synthetic fluid recommended by Allison Transmission, Inc. approved against the Allison TES-295 Specification. The fluid is designed to meet the demanding requirements of modern heavy duty automatic transmissions. The synthetic base oil composition enables excellent performance even in some of the harshest of operating conditions. It offers outstanding gear shifting and power transfer performance. Versus conventional ATF fluids, the inherently high viscosity index and stability of Mobil Delvac Synthetic ATF protects against thermal breakdown at high operating temperatures, while still providing outstanding performance at sub-zero temperatures.

## Features and Benefits

Mobil Delvac Synthetic ATF advanced technology has demonstrated extended drain, long-term friction retention, and low-temperature capability. Further, it improves overall transmission durability and cleanliness. Key features and benefits include

| <b>Features</b>                                     | <b>Advantages and Potential Benefits</b>   |
|---|--|
| Enhanced, long-term frictional properties.          | Helps improve overall and extends transmission efficiency, smooth shifting performance and fuel economy.     |
| Exceptional thermal and oxidation stability.        | Keeps transmissions clean to extend life and performance even under some of the harshest driving conditions. |
| Outstanding film-strength and anti-wear properties. | Significant wear reduction and long transmission life.   |
| Excellent low-temperature fluidity.                 | Provides prompt and reliable lubrication at sub-zero ambient temperatures down to $-54^{\circ}\text{C}$ .    |
| Exceptional shear stability.                        | Leads to viscosity retention even under the severest heavy duty, high temperature operating conditions.      |
| Compatible with mineral ATF fluids                  | Reduced concern in top-off situations and excellent seal materials leakage control.                          |

## Applications

Mobil Delvac Synthetic ATF is recommended for use in modern high performance trucks, buses, utility vehicles, haulers, vans and other equipment requiring Allison TES-295 or MB-Approval 236.91 performance levels.

## Specifications and Approvals

**Mobil Delvac Synthetic ATF has the following builder approvals:**

|  |   |
|--|---|
| Allison TES-295 (AN - 051005)                          | X |
| MB-Approval 236.91                                     | X |
| Volith Turbo H55.633638                                | X |
| Voith Turbo DIWA Service Bulletin 013 - Extended Drain | X |
| Voith Turbo DIWA Service Bulletin 118 - Extended Drain | X |

## Typical Properties

**Mobil Delvac Synthetic ATF**

|                                   |      |
|-----------------------------------|------|
| Viscosity, ASTM D 445             |      |
| cSt @ 40° C                       | 39   |
| cSt @ 100° C                      | 7.3  |
| Brookfield Viscosity, ASTM D 5293 |      |
| -cP @ -40° C                      | 8400 |
| Viscosity Index, ASTM D 2270      | 168  |
| Pour Point, °C, ASTM D 97         | -54  |
| Flash Point, °C, ASTM D 92        | 236  |
| Density @15° C kg/l, ASTM D 4052  | 0.85 |
| Color                             | Red  |

## Health and Safety

Based on available information, this product is not expected to produce adverse effects on health when used for the intended application and the recommendations provided in the Material Safety Data Sheet (MSDS) are followed. MSDS's are available upon request through your sales contract office, or via the Internet. This product should not be used for purposes other than its intended use. If disposing of used product, take care to protect the environment.

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RFQ No. 01110

STATE OF WEST VIRGINIA  
Purchasing Division

**PURCHASING AFFIDAVIT**

West Virginia Code §5A-3-10a states: No contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and the debt owed is an amount greater than one thousand dollars in the aggregate.

**DEFINITIONS:**

"Debt" means any assessment, premium, penalty, fine, tax or other amount of money owed to the state or any of its political subdivisions because of a judgment, fine, permit violation, license assessment, defaulted workers' compensation premium, penalty or other assessment presently delinquent or due and required to be paid to the state or any of its political subdivisions, including any interest or additional penalties accrued thereon.

"Debtor" means any individual, corporation, partnership, association, limited liability company or any other form or business association owing a debt to the state or any of its political subdivisions. "Political subdivision" means any county commission; municipality; county board of education; any instrumentality established by a county or municipality; any separate corporation or instrumentality established by one or more counties or municipalities, as permitted by law; or any public body charged by law with the performance of a government function or whose jurisdiction is coextensive with one or more counties or municipalities. "Related party" means a party, whether an individual, corporation, partnership, association, limited liability company or any other form or business association or other entity whatsoever, related to any vendor by blood, marriage, ownership or contract through which the party has a relationship of ownership or other interest with the vendor so that the party will actually or by effect receive or control a portion of the benefit, profit or other consideration from performance of a vendor contract with the party receiving an amount that meets or exceed five percent of the total contract amount.

**EXCEPTION:** The prohibition of this section does not apply where a vendor has contested any tax administered pursuant to chapter eleven of this code, workers' compensation premium, permit fee or environmental fee or assessment and the matter has not become final or where the vendor has entered into a payment plan or agreement and the vendor is not in default of any of the provisions of such plan or agreement.

Under penalty of law for false swearing (*West Virginia Code* §61-5-3), it is hereby certified that the vendor affirms and acknowledges the information in this affidavit and is in compliance with the requirements as stated.

**WITNESS THE FOLLOWING SIGNATURE**

Vendor's Name: Petagram Products, Inc

Authorized Signature: [Signature] Date: 9-20-10

State of W.V.

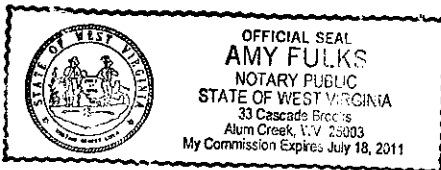
County of Kanawha, to-wit:

Taken, subscribed, and sworn to before me this 20 day of September, 2010.

My Commission expires 7-18-11, 2011.

AFFIX SEAL HERE

NOTARY PUBLIC [Signature]



# State of West Virginia VENDOR PREFERENCE CERTIFICATE

Certification and application\* is hereby made for Preference in accordance with *West Virginia Code*, §5A-3-37. (Does not apply to construction contracts). *West Virginia Code*, §5A-3-37, provides an opportunity for qualifying vendors to request (at the time of bid) preference for their residency status. Such preference is an evaluation method only and will be applied only to the cost bid in accordance with the *West Virginia Code*. This certificate for application is to be used to request such preference. The Purchasing Division will make the determination of the Resident Vendor Preference, if applicable.

1. Application is made for 2.5% resident vendor preference for the reason checked:  
 Bidder is an individual resident vendor and has resided continuously in West Virginia for four (4) years immediately preceding the date of this certification; or,  
 Bidder is a partnership, association or corporation resident vendor and has maintained its headquarters or principal place of business continuously in West Virginia for four (4) years immediately preceding the date of this certification; or 80% of the ownership interest of Bidder is held by another individual, partnership, association or corporation resident vendor who has maintained its headquarters or principal place of business continuously in West Virginia for four (4) years immediately preceding the date of this certification; or,  
 Bidder is a nonresident vendor which has an affiliate or subsidiary which employs a minimum of one hundred state residents and which has maintained its headquarters or principal place of business within West Virginia continuously for the four (4) years immediately preceding the date of this certification; or,
2. Application is made for 2.5% resident vendor preference for the reason checked:  
 Bidder is a resident vendor who certifies that, during the life of the contract, on average at least 75% of the employees working on the project being bid are residents of West Virginia who have resided in the state continuously for the two years immediately preceding submission of this bid; or,
3. Application is made for 2.5% resident vendor preference for the reason checked:  
 Bidder is a nonresident vendor employing a minimum of one hundred state residents or is a nonresident vendor with an affiliate or subsidiary which maintains its headquarters or principal place of business within West Virginia employing a minimum of one hundred state residents who certifies that, during the life of the contract, on average at least 75% of the employees or Bidder's affiliate's or subsidiary's employees are residents of West Virginia who have resided in the state continuously for the two years immediately preceding submission of this bid; or,
4. Application is made for 5% resident vendor preference for the reason checked:  
 Bidder meets either the requirement of both subdivisions (1) and (2) or subdivision (1) and (3) as stated above; or,
5. Application is made for 3.5% resident vendor preference who is a veteran for the reason checked:  
 Bidder is an individual resident vendor who is a veteran of the United States armed forces, the reserves or the National Guard and has resided in West Virginia continuously for the four years immediately preceding the date on which the bid is submitted; or,
6. Application is made for 3.5% resident vendor preference who is a veteran for the reason checked:  
 Bidder is a resident vendor who is a veteran of the United States armed forces, the reserves or the National Guard, if, for purposes of producing or distributing the commodities or completing the project which is the subject of the vendor's bid and continuously over the entire term of the project, on average at least seventy-five percent of the vendor's employees are residents of West Virginia who have resided in the state continuously for the two immediately preceding years.

Bidder understands if the Secretary of Revenue determines that a Bidder receiving preference has failed to continue to meet the requirements for such preference, the Secretary may order the Director of Purchasing to: (a) reject the bid; or (b) assess a penalty against such Bidder in an amount not to exceed 5% of the bid amount and that such penalty will be paid to the contracting agency or deducted from any unpaid balance on the contract or purchase order.

By submission of this certificate, Bidder agrees to disclose any reasonably requested information to the Purchasing Division and authorizes the Department of Revenue to disclose to the Director of Purchasing appropriate information verifying that Bidder has paid the required business taxes, provided that such information does not contain the amounts of taxes paid nor any other information deemed by the Tax Commissioner to be confidential.

Under penalty of law for false swearing (*West Virginia Code*, §61-5-3), Bidder hereby certifies that this certificate is true and accurate in all respects; and that if a contract is issued to Bidder and if anything contained within this certificate changes during the term of the contract, Bidder will notify the Purchasing Division in writing immediately.

Bidder: PETROLEUM PRODUCTS, INC.                      Signed: Daniel L. Mount  
 Date: 9/21/10    Title: INTERNAL SALES MANAGER

\*Check any combination of preference consideration(s) indicated above, which you are entitled to receive.