

LUBRICANTS FOR FLEETS



Beyond today's standards.





Petro-Canada lubricants meet and exceed specifications set by many of the world's most demanding Original Equipment Manufacturers (OEMs).

From heavy duty engine oils to hydraulic fluids, from automatic transmission fluids to gear oils and greases – when it comes to lubricants for transportation, Petro-Canada is a one-stop solution to a world of needs.

Beyond Today's Standards

We operate one of the largest base oil refineries in the world – one of 5 refineries in North America owned by Suncor Energy, Inc., the fifth largest integrated energy company on the continent.

We were the first lubricants manufacturer in North America certified ISO 9001 – and the first in the world certified to the international automotive standard TS 16949. We meet the demanding criteria of every industry we serve, adhering to the globally recognized ISO 14001 standard to protect the planet we all share. And we have earned an enviable track record for partnership and performance in Europe, the Middle East and Africa, serving these markets through Petro-Canada Europe since 1999.

With hundreds of lubricant products available to suit virtually every industry, Petro-Canada lubricants are performing beyond standards and expectations for many of the world's leading companies, providing better protection and the higher level of performance that results from building on a better foundation.

Better Base Oil. Better Performance.

In one of the most advanced lubricant facilities in Canada, Petro-Canada uses the HT purity process to produce its 99.9% pure base oils that play a major role in a lubricant's ability to resist oxidative thickening. The results are longer-lasting protection and performance efficiencies. In addition, purer base oils ensure additives can perform as they're meant to, free from the adverse effects of impurities.



Heavy Duty Engine Oils



DURON™-E UHP 5W-30 Ultra High Performance

DURON-E UHP 5W-30 is an Ultra High Performance Diesel engine oil specially formulated with a synthetic base oil and high performance additives to deliver up to 2x* better engine protection and up to 4%** fuel economy savings. Like all DURON Heavy Duty Engine Oils, it's made with 99.9% pure base oils and specially formulated to maintain its fresh oil properties longer, allowing it to provide the maximum amount of protection in both standard and extended drain intervals.***

DURON-E UHP 5W-30 is a low SAPS (sulphated ash, phosphorous, sulphur) oil that meets ACEA E6/E7/E9 and API CJ-4 Plus requirements. Approved for use with leading OEMs, it meets the latest European emission legislation: Euro V and VI in vehicles fitted with or without emission systems such as EGR (Exhaust Gas Recirculation), DPF (Diesel Particulate Filter) and SCR (Selective Catalytic Reduction).

*Based on results from the Daimler OM 646 LA industry recognized test.

**Fuel economy results are based on the generally accepted and industry recognized SAE J1321 Type II fuel consumption test. Comparison of fuel economy is relative to DURON-E 15W-40, and in combination with TRAXON™ Synthetic 75W-90 (relative to a TRAXON 85W-140) gear oil. Actual results are dependent on external factors including, but not limited to: driving terrain, weather conditions, tire pressure and severity of operating conditions.

***Extending drain intervals should always be undertaken in conjunction with a regular oil analysis program.



Heavy Duty Engine Oils (cont'd)



DURON™ UHP 10W-40

DURON UHP 10W-40 is specifically designed for European heavy duty diesel engines. Like all DURON Heavy Duty Engine Oils, it's made with 99.9% pure base oils and specially formulated to deliver better performance. In recent comparative tests DURON UHP 10W-40 not only meets and exceeds ACEA specifications, it exceeds major European OEM standards, by as much as 50%.*

DURON UHP 10W-40 is a low SAPS (sulphated ash, phosphorous, sulphur) oil that outperforms ACEA E6 and API CI-4 Plus requirements. Approved for use with leading OEMs, it meets the latest European emission legislation: Euro V and VI in vehicles fitted with or without emission systems such as EGR (Exhaust Gas Recirculation), DPF (Diesel Particulate Filter) and SCR (Selective Catalytic Reduction).

* Based on results from the OM 646 LA inlet and outlet tests.

► **Advanced Engine Protection**

DURON maintains consistent film strength for consistent wear protection, minimizing engine sludge and piston top groove deposits and thereby maintaining 'like new' engine conditions.



▶ **Operating Efficiency**

The low volatility of the pure base oil used in DURON helps keep top-ups to a minimum by decreasing vaporisation so that less oil is lost. By controlling viscosity-increasing particulate matter or soot, DURON protects engines from the effects of viscous drag that can decrease fuel economy.

▶ **Extended Drain Intervals**

99.9% pure base oils maintain their fresh oil properties longer, providing better resistance to oxidative thickening. As a result, DURON helps engines stay cleaner longer, allowing you to extend your drain intervals* safely without the risk of increased engine wear and sluggish performance.

*Extending drain intervals should always be undertaken in conjunction with a regular oil analysis program.

▶ **All-Weather Performance**

The exceptional cold-pumping properties of DURON protect engines in the first critical moments when most engine wear is likely to occur. In extremely high temperatures, DURON's outstanding shear stable formulation helps maintain stay-in-grade performance for improved engine protection.





DURON-E UHP 5W-30

Ultra High Performance Diesel engine oil formulated with synthetic base oils and high performance additives designed with advanced soot controlling capabilities to deliver up to 2x* better wear protection and 4%** better fuel economy.



DURON UHP 10W-40

Advanced engine protection and operational efficiency with extended drain capability and excellent all-weather performance.



DURON-E SYNTHETIC 10W-40

Delivers industry leading soot control while providing the ultimate in all-weather engine protection and performance.



DURON-E XL 15W-40

High performance, all-weather formulation that offers exceptional soot controlling properties to provide excellent performance and protection.



DURON-E 15W-40

Advanced soot control and excellent all-weather engine protection and reliability.



DURON XL 15W-40

All-weather defense against oil thickening, engine wear and sluggish performance with advanced soot control.



DURON 15W-40

Effective API CI-4 Plus performance in low emission or legacy engines with advanced soot control, extended drain capabilities and good cold start-up performance.

* Based on results from the Daimler OM 646 LA industry recognized test.

** Fuel economy results are based on the generally accepted and industry recognized SAE J1321 Type II fuel consumption test. Comparison of fuel economy is relative to DURON-E 15W-40, and in combination with TRAXON™ Synthetic 75W-90 (relative to a TRAXON 85W-140) gear oil. Actual results are dependent on external factors including, but not limited to: driving terrain, weather conditions, tire pressure and severity of operating conditions.

APPROVALS AND RECOMMENDATIONS

● APPROVED ● SUITABLE FOR USE ◊ MEETS SPECIFICATION

| Specifications | DURON-E UHP 5W-30 | DURON UHP 10W-40 | DURON-E 15W-40 | DURON-E XL 15W-40 | DURON-E Synthetic 10W-40 | DURON 15W-40 | DURON XL 15W-40 |
|--|----------------------|---------------------|-------------------|----------------------|--------------------------------|-----------------|--------------------|
| ACEA | | | | | | | |
| ACEA E6 | ◊ | ◊ | | | | | |
| ACEA E7 | ◊ | ◊ | | ◊ | | ◊ | ◊ |
| ACEA E9 | ◊ | ◊ | ◊ | ◊ | ◊ | | |
| DAF | | | | | | | |
| DAF Standard Drain | | ● | | | | | |
| DAF Standard and Extended Drain | ◊ | | | | | | |
| DEUTZ | | | | | | | |
| Deutz DQC III-10 LA | ● | ● | | | ● | | |
| MAN | | | | | | | |
| MAN 3477 | ● | ● | | | | | |
| MAN 3275-1 | | | ● | | | | |
| MAN 3275 | | | ○ | | | ○ | ○ |
| MAN 3271-1 | | ● | | | | | |
| Mercedes-Benz | | | | | | | |
| MB-Approval 228.51 | ● | ● | | | | | |
| MB-Approval 228.31 | | | ● | | | | |
| MB-Approval 228.3 | | | | | | ○ | ● |
| MB 223.2 Specification for Gas Engines | | ● | ● | | | | |
| MTU | | | | | | | |
| MTU 3.1 | ● | ● | | | | | |
| MTU Type 2.1 | | | ● | | | | |
| MTU Type 2 | | | ○ | | | ● | ● |
| Renault | | | | | | | |
| Renault VI RLD-3 | ● | | ● | ● | ● | | |
| Renault VI RLD-2 | | ● | | | | ● | ● |
| Scania | | | | | | | |
| Scania low ash | | ○ | | | | | |
| Scania LDF, LDF-2 | ○*** | | | | | ○ | ○ |
| Volvo | | | | | | | |
| Volvo VDS-4 | ● | | ● | ● | ● | | |
| Volvo VDS-3 | ○ | ● | ● | ● | ● | ● | ● |
| Volvo VDS-2 | | | ● | ● | ● | ● | ● |
| API | | | | | | | |
| API CJ-4 | ◊ | | ◊ | ◊ | ◊ | | |
| API CI-4 PLUS | | ◊ | ◊ | ◊ | ◊ | ◊ | ◊ |
| API CI-4 | | | ◊ | ◊ | ◊ | ◊ | ◊ |
| API CH-4 | | | ◊ | ◊ | ◊ | ◊ | ◊ |
| API SN | ◊ | | ◊ | | | | |
| API SM | | | ◊ | ◊ | ◊ | | |
| API SL | | | ◊ | ◊ | ◊ | ◊ | ◊ |
| Caterpillar* | | | | | | | |
| Caterpillar TO-2 | | | ○ | ○ | ○ | ○ | ○ |
| Caterpillar TO-2/ Allison C4 | | | | | | ○ | ○ |
| Caterpillar ECF-1-a | | | ○ | ○ | ○ | ○ | ○ |
| Caterpillar ECF-2 | | ◊ | ○ | ○ | ○ | ○ | ○ |
| Caterpillar ECF-3 | ○ | | ◊ | ◊ | ◊ | | |
| Caterpillar SEBU 6385 | ○ | | ◊ | ◊ | ◊ | ◊ | ◊ |
| Cummins | | | | | | | |
| Cummins CES 20076 | | | ● | ● | ● | ● | ● |
| Cummins CES 20077 | ○ | | ● | ● | ● | ● | ● |
| Cummins CES 20078 | ○ | ○ | ● | ● | ● | ● | ● |
| Cummins CES 20081 | ● | | ● | ● | ● | | |
| Detroit Diesel | | | | | | | |
| Detroit Diesel DFS 93K214 | | | ● | ● | | ○ | ○ |
| Detroit Diesel DFS 93K215 | | | ● | ● | | ● | ● |
| Detroit Diesel DFS 93K218 | ● | | ● | ● | ● | | |
| Detroit Diesel 7SE270 2 Stroke Cycle** | | | | | | ○ | ○ |
| Detroit Diesel 7SE272 (Series 2000/4000) | | | ● | | | ○ | ○ |
| Ford | | | | | | | |
| Ford M2C171-C | | | ○ | ○ | ○ | ○ | ○ |
| Ford M2C171-D | | | ○ | ○ | ○ | ○ | ○ |
| Ford WSS-M2C171-E | ○ | | ● | ● | ● | | |
| General Motors | | | | | | | |
| General Motors 9985930 | | | | ○ | ○ | | |
| Mack | | | | | | | |
| Mack E0-M/ E0-M Plus | | | ● | ● | ● | ● | ● |
| Mack E0-N | | ● | ● | ● | ● | ● | ● |
| Mack E0-0 PP '07 | ● | | ● | ● | ● | | |
| Other | | | | | | | |
| GLOBAL DHD-1 | | | | | | ○ | ○ |
| JASO DH-1, DH-2 | ○ | | | ○ | ○ | ○ | ○ |
| JASO MA, MA2 | | | ○ | ○ | ○ | | ○ |

*Caterpillar does not offer approvals for their equipment, but suitable for use claims may be applied based on proof of performance.

**Detroit Diesel recommends an SAE 40 grade only for 2-stroke cycle engines, except where starting aids are not available or at very cold temperatures, when the use of an SAE 15W-40 or SAE 30 will facilitate starting.

***Approval pending with proven chemical technology.

Automotive Gear Fluids



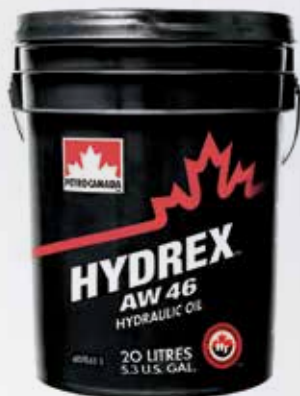
Petro-Canada's TRAXON™ is your best choice for a premium multigrade line of gear oils. TRAXON gear oils are specially formulated to provide excellent shear stability and longer oil life for exceptional long-lasting protection to help you extend equipment life and reduce downtime and maintenance costs.

- APPROVED ○ SUITABLE FOR USE

| Approvals | TRAXON 80W-90 | TRAXON XL Synthetic Blend 75W-90 | TRAXON Synthetic 75W-90 | TRAXON E Synthetic 75W-90 | TRAXON E Synthetic CD-50 |
|-----------------------------------|---------------|----------------------------------|-------------------------|---------------------------|--------------------------|
| API MT-1/GL-5 | | | | ● | ● |
| ArvinMeritor | | | | ● | ● |
| DAF | ○ | ○ | ○ | | |
| Eaton/Dana/Roadranger | | | | ● | ● |
| International TMS 6816 | | | | ● | ● |
| IVECO | ○ | ○ | ○ | | |
| MACK GO-J | ● | ● | ○ | ● | |
| MAN 342 M1 | ● | ○ | ○ | | |
| RVI GL-5 | ○ | ○ | ○ | | |
| SAE J2360 | ● | ● | ○ | ● | |
| Scania ST0:1 | ○ | ○ | ○ | | |
| Volvo | ○ | ○ | ○ | | ● |
| ZF-Freedomline | | | | | ● |
| ZF: TE-ML 05A, 12E, 16B, 19B, 21A | ● | ○ | ○ | | |
| ZF: TE-ML 17B | ● | ● | ○ | | |



Hydraulic Fluids



Petro-Canada's HYDREX™ hydraulic fluids last up to 3x longer and offer up to 2x better wear protection than a major leading competitor.* HYDREX means more uptime, increased productivity and better energy efficiencies.** Its long life helps extend drain intervals for reduced change-out costs. Its strong oxidative stability helps minimize harmful sludge build-up that can lead to wear and shortened filter life. By protecting your equipment with HYDREX, you can help reduce maintenance and mechanical failure, and prolong your equipment life.

● APPROVED ○ SUITABLE FOR USE

| Approvals | HYDREX AW 22 | HYDREX AW 32 | HYDREX AW 46 | HYDREX AW 68 | HYDREX AW 80 | HYDREX AW 100 |
|------------------------------|--------------|--------------|--------------|--------------|--------------|---------------|
| Denison | | | | | | |
| Denison HF-0 | | ● | ● | ● | | |
| Eaton-Vickers | | | | | | |
| Eaton-Vickers M-2950-S | ● | ● | ● | ● | ● | ● |
| Eaton-Vickers I-286-S | ● | ● | ● | ● | | ● |
| MAG IAS | | | | | | |
| MAG IAS P68 | | ● | | | | |
| MAG IAS P69 | | | | ● | | |
| MAG IAS P70 | | | ● | | | |
| Bosch-Rexroth | | | | | | |
| Bosch-Rexroth RD 90220 | ● | ● | ● | ● | | ● |
| Marlen | | | | | | |
| Marlen Hydraulic Power Units | | | | ● | | |
| DIN | | | | | | |
| DIN 51524 Part 1 HL | ○ | | | | | |
| DIN 51524 Part 2 HLP | | ○ | ○ | ○ | | ○ |
| ISO | | | | | | |
| ISO 6743/4 HM | | ○ | ○ | ○ | ○ | ○ |
| NSF | | | | | | |
| NSF International H2 | ○ | ○ | ○ | ○ | ○ | ○ |
| KOMATSU | | | | | | |
| Komatsu JCMA HK-1 Pump Test | | ○ | ○ | | | |
| GM | | | | | | |
| GM LS-2 | | ● | ● | | | |
| VOITH | | | | | | |
| Voith 3625-006072 | | ○ | | | | |
| Voith 3625-006073 | | ○ | | | | |
| Voith 3625-008426 | | ○ | | | | |
| Voith 3625-006208 | | | ○ | | | |
| Voith 3625-006209 | | | ○ | | | |
| Voith 3625-006101 | | | | | | ○ |
| ENGEL | | | | | | |
| Engel | | | ● | | | |

* Measured against the number one selling North American hydraulic oil brand.

** Energy efficiencies apply to multigrades only.

Greases



A premium line of multi-application greases specially formulated for advanced protection.

Better long-life protection.

PRECISION™ greases can last up to 3x longer than other brands (ASTM D-3527), and stay in place even under the most challenging operating conditions.

Better water washout protection.

PRECISION greases can provide high performance that has been demonstrated over leading competitors' premium multi-application products. High water washout resistance means less re-greasing in wet environments.

Better extreme pressure protection.

PRECISION greases are ideally suited for the demands of highway, off-road and farm vehicles, running under tough conditions. Many PRECISION and PEERLESS™ greases meet the NLGI's GC-LB classification for wheel bearing and chassis lubrication and are ideal for applications in a wide range of trucking equipment.

| Product | NLGI Grade | Composition | Operating Temperature Range (°C) | Application |
|---------------------|------------|---|----------------------------------|---|
| PRECISION Synthetic | 1 | Lithium Complex (Colour = Gold) | -40 to 170 | Specially designed to provide protection over a wide range of operating temperatures, for all-season protection. Delivers outstanding cold weather performance without compromising high temperature lubrication. |
| PRECISION XL EP1 | 1 | Lithium Complex (Colour = Green) | -25 to 160 | Specially designed for automotive wheel bearings, chassis points on on-hwy and off-hwy vehicles. |
| PRECISION XL EP2 | 2 | Lithium Complex (Colour = Green) | -20 to 160 | Specially designed for automotive wheel bearings, chassis points on on-hwy and off-hwy vehicles. |
| PEERLESS LLG | 2 | Calcium Sulphonate Complex (Colour = Burgundy) | -20 to 200 | Recommended for "sealed-for-life" bearings, other high temperature and long-life applications. Designed to match the performance of Polyurea greases. |
| PEERLESS OG1 | 1 | Calcium Sulphonate Complex (Colour = Tan) | -30 to 163 | Recommended for applications requiring water resistance. Effective at resisting changes in consistency and still providing rust protection. |
| PEERLESS OG2 | 2 | Calcium Sulphonate Complex (Colour = Tan) | -25 to 163 | Recommended for applications requiring water resistance. Effective at resisting changes in consistency and still providing rust protection. |
| PEERLESS OG2 Red | 2 | Calcium Sulphonate Complex (Colour = Red) | -25 to 163 | Recommended for applications requiring water resistance. Effective at resisting changes in consistency and still providing rust protection. Dyed red for applications requiring greater grease visibility. |

Automatic Transmission Fluids (ATF)



Petro-Canada's ATFs represent a careful balance of properties needed to meet the requirements of automatic transmissions. Petro-Canada's ATFs excel in oxidation stability, low-temperature fluidity and wear protection to deliver the performance you require and the increased productivity you want.

Petro-Canada Heavy Duty Synthetic Blend ATF

Specifically formulated for commercial and heavy duty applications. Suitable for use in heavy duty fleets for up to 80,000 km in severe service and 160,000 km in normal service.

Petro-Canada also offers automatic transmission fluids for DEXRON®-VI and ATF+4® applications. Petro-Canada HD Synthetic Blend ATF is the preferred fluid during the base and extended warranty period for Voith transmissions covered by Voith documents G1363, DSB013 and DSB118.

| Product | Features & Benefits | Credentials |
|--|--|---|
| Petro-Canada Heavy Duty Synthetic Blend ATF | <ul style="list-style-type: none"> Specially formulated for commercial and heavy duty. Outstanding resistance to oxidative and thermal breakdown. Offers extended drain intervals with outstanding wear protection. | <p><u>Approval</u></p> <ul style="list-style-type: none"> Voith: 55.6336.3X (G1363) ZF: TE-ML 14B, TE-ML 02F, 03D, 04D, 16L, 17C Allison: C4 <p><u>Suitable for use</u></p> <ul style="list-style-type: none"> Mercedes Benz: MB-236 MAN: 339 Allison: TES-295 Caterpillar: TO-2 Volvo: 97341 Ford: MERCON®-V GM: DEXRON®-III(H), III(G), II(E) |

DEXRON® is a registered trademark of General Motors Corporation.
 MERCON® is a registered trademark of Ford Motor Company.
 ATF+4® is a registered trademark of FCA US LLC (formerly known as Chrysler Group LLC).



NO-NONSENSE LUBRICANTS WARRANTY

"Petro-Canada will repair damaged equipment, or replace damaged equipment parts resulting from a failure due to defects of the Petro-Canada lubricant, as long as the lubricant is used in accordance with your equipment manufacturer's and our recommendations."

**It's more than a warranty.
It's a commitment.**

DuronUHP.eu



To place an order, please call a Customer Order Management Representative at:

Canada (English)..... Phone 1-800-268-5850
(French)..... Phone 1-800-576-1686
United States Phone 1-877-730-2369
Latin America..... Phone +1-416-730-2369
Europe Phone +1-416-730-2389
Asia Phone +1-416-730-2372
China..... Phone +86 (21) 6362-0066

You can also e-mail us at
lubecsr@suncor.com

To know more about how Petro-Canada lubricants, specialty fluids, oils and greases can help maximize your equipment performance, savings and productivity, please contact us at:

North America..... Phone 1-866-335-3369
Europe Phone +44 (0) 121-781-7264
Germany Phone +49 (0) 201-726-2913
Latin America..... Phone +1-416-730-2369
Asia Phone +1-416-730-2372
China..... Phone +86 (21) 6362-0066
E-mail..... sales@suncor.com

Visit us on the web at
petro-canada.eu

A CHANGE FOR THE BETTER

Learn more at petro-canada.eu