



DURON™ SYNTHETIC HEAVY DUTY ENGINE OIL

Introduction

Petro-Canada DURON SYNTHETIC are full synthetic all-weather heavy duty engine oils specially formulated to maximize reliability and minimize wear, particularly in extreme cold temperature conditions. DURON SYNTHETIC's technologically advanced formulation makes the product suitable for the low emission diesel engine designs (pre '07) such as cooled EGR and ACERT.

DURON Synthetic engine oils are formulated using one of the purest base oils in the world; the result of a HT purity process to produce 99.9% pure base oils. That purity helps maximize the effectiveness of the oil's soot controlling chemistry and high performance additive system. DURON SYNTHETIC is ideal for use in extended oil drain interval* service. The keys to success in extending service intervals are good operating practices and maintenance programs. Contact your Petro-Canada representative for additional information and assistance.

Features and Benefits

- **Advanced soot control**
 - Helps prevent soot agglomeration, which:
 - Minimizes soot related engine wear
 - Minimizes soot related viscosity increase, resulting in better maintenance of fuel economy and cold temperature performance and protection
 - Helps reduce filter plugging and permits better oil flow

- **Excellent high and low temperature properties**
 - Enjoy faster cold-weather start-ups with less engine stress
 - Superior fluidity without sacrificing high temperature properties
- **Extend equipment life and reduce operating costs**
 - Retains new oil quality longer
 - Reduces engine and component wear for excellent all-weather protection
- **Reduce the risk of equipment failure**
 - Excellent pumpability means faster oil flow and reduced wear on start-up
- **Increase productivity and profitability**
 - Increased equipment durability
 - Extend service intervals with confidence
- **Potential to reduce fuel consumption**
 - Reduce unnecessary idling time. Shut down engines with confidence of restart in extreme cold temperatures
 - Enjoy potential fuel economy benefits that arise from lower viscous drag

What is the HT difference?

Petro-Canada starts with the HT purity process to produce water-white, 99.9% pure base oils. The result is a range of lubricants, specialty fluids and greases that deliver maximum performance for our customers.



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

Approvals and Recommendations

Approved
 Suitable For Use

Approvals	DURON SYNTHETIC 0W-30	DURON SYNTHETIC 5W-40
API		
API CI-4 PLUS		■
API CI-4		■
API CH-4	■	■
API SM	■	
API SL		■
Caterpillar		
Caterpillar TO-2	□	□
Caterpillar TO-2 / Allison C4	□	□
Caterpillar ECF-1-a	□	□
Caterpillar ECF-2		□
Cummins		
Cummins CES 20076	□	■
Ford		
Ford M2C171-C	□	□
Ford M2C171-D		□
Mack		
Mack EO-M / EO-M Plus	□	■
Other		
JASO MA	□	

Applications

Engine Service Classifications:

DURON SYNTHETIC 5W-40 meets the high temperature physical property requirements of a 15W-40 according to SAE J300 and API CI-4 Plus

DURON SYNTHETIC is formulated to meet or exceed the following diesel engine manufacturer standards: Mack EO-M, Mack EO-M Plus, Cummins CES 20076, Caterpillar, Ford M2C171-D

DURON SYNTHETIC meets or exceeds the performance requirements of the following manufacturers - Caterpillar, Detroit Diesel (4 stroke), Navistar International, Allis-Chalmers, Case IH, Deere, Fiat-Allis, GMC, Deutz, Continental, Hino, Komatsu, Perkins.

Transmission and Hydraulic Systems

- Allison transmissions and torque converters where a C-4 fluid is specified
- Caterpillar powershift transmissions, semi-automatic transmissions and torque converters where a CD/TO-2 fluid is specified
- Clark powershift transmissions
- Excellent hydraulic fluids where an engine oil is specified

Car and Light Duty Diesel Engines

DURON SYNTHETIC 5W-40 is suitable for use in diesel powered engines in smaller vehicles, including cars and light trucks where API CI-4 Plus, CI-4, CH-4, CF, or earlier specifications are required.

DURON SYNTHETIC 0W-30, blended with API CI-4 additive technology, is suitable for use in diesel powered engines in smaller vehicles, including cars and light trucks where API CI-4, CH-4, CF, or earlier specifications are required.

Gasoline Engines

DURON SYNTHETIC is suitable for use in most engines operating on gasoline or natural gas fuel. This includes passenger car and light duty truck applications where API SM or earlier specification is required.

TYPICAL PERFORMANCE DATA

PROPERTY	ASTM TEST METHOD	DURON SYNTHETIC 0W-30	DURON SYNTHETIC 5W-40
Flash Point, °C / °F	D92	231 / 448	223 / 433
Kinematic Viscosity cSt @ 40°C / SUS @ 100°F cSt @ 100°C / SUS @ 210°F	D445	61.3 / 311 11.1 / 63.6	95.5 / 486 15.5 / 80.5
Viscosity Index	D2270	176	172
High Temp/High Shear Viscosity cP @ 150°C	D4683	3.32	4.31
Cold Cranking Viscosity, cP @ °C / °F	D5293	5606 (-35 / -31)	6260 (-30 / -22)
Pour Point °C / °F	D5950	-51 / -60	-45 / -49
Borderline Pumping Viscosity, cP @ °C / °F	D4684	17860 (-40 / -40)	23630 (-35 / -31)
Sulphated Ash, % wt.	D874	1.3	1.4
Total Base No. (TBN), mg KOH/g	D2896	9.2	10.8

The values quoted above are typical of normal production. They do not constitute a specification.

Health and Safety

To obtain Material Safety Data Sheet (MSDS), contact one of Petro-Canada's TechData Info Lines.

TechData Info Lines

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 learn 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 lubricants.petro-canada.ca

IM-7944E (2013.08)

Petro-Canada is a Suncor Energy business
™Trademark of Suncor Energy Inc. Used under licence.

Beyond today's standards.



PRINTED IN CANADA PRINTED ON RECYCLABLE PAPER