



## DURON™ XL SYNTHETIC BLEND HEAVY DUTY ENGINE OILS

### Introduction

DURON XL Synthetic Blend heavy duty engine oils are premium engine oils recommended for equipment operating in both on-road and off-road heavy duty service applications.

DURON XL Synthetic Blend engine oils simplify operations in mixed fleets of global origin and have the soot dispersing capability required by low emission engine designs up to the 2007 model year (for equipment with exhaust after-treatment, DURON-E products are recommended). DURON XL Synthetic Blend engine oils are suitable for use in engines fuelled by diesel, gasoline, propane, or compressed natural gas (CNG), where applications specify their respective API credentials.

DURON XL Synthetic Blend engine oils are formulated from 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. Extensive fleet trials over millions of kilometres have proven the outstanding benefits of DURON XL Synthetic Blend.

### 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 low temperature pumping for wide temperature range protection**
  - Oil flows easily on start-up for better wear protection
  - Resists thickening and retains new oil characteristics longer even at elevated soot loads
  - Better low temperature protection even with used oil
  - Potential for improved fuel economy through lower viscous drag
- **Excellent high temperature performance for superior all-weather performance**
  - Oil stays in grade and retains new oil properties during extended drain intervals
  - Oil pressure remains stable even at extended drains
- **Helps provide exceptional engine wear protection**
  - Proven bore polish wear protection
  - Outstanding engine ring and liner, valve train and bearing wear resistance
  - Helps extend time between rebuilds
  - Better performance through the life of the engine

### Product Line

#### DURON XL Synthetic Blend 15W-40

The natural choice when the highest possible 15W-40 high temperature performance is required for pre '07 emission standard engines. Product of choice for most severe service, drain extension or around-the-clock operation.

#### 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.



## DURON XL Synthetic Blend 10W-40

Where extended temperature range is needed without any sacrifice in 15W-40 high temperature performance. Particularly suited for situations where equipment is frequently restarted, including fleets with a mix of Class 8 and smaller vehicles with pre '07 emission standard engines. Potential for fuel economy through lower viscous drag and avoidance of idling.

## DURON XL Synthetic Blend 0W-30

Where fluidity is required down to sub-arctic conditions. Fully tested for confidence in wear protection and maximum engine life.

### Approvals and Recommendations

■ Approved  
□ Suitable For Use

Approvals	DURON XL 15W-40	DURON XL 10W-40	DURON XL 0W-30
<b>ACEA</b>			
ACEA E7 - 08	□		
ACEA E7 - 04	□		
<b>API</b>			
API CI-4 PLUS	■	■	
API CI-4	■	■	
API CH-4	■	■	■
API SL	■	■	
API SJ			■
<b>Caterpillar</b>			
Caterpillar TO-2	□	□	□
Caterpillar TO-2 / Allison C4	□	□	
Caterpillar ECF-1-a	□	□	□
Caterpillar ECF-2	□	□	
Caterpillar SEBU 6385	□		
<b>Cummins</b>			
Cummins CES 20076	□	□	■
Cummins CES 20077	□	□	
Cummins CES 20078	■	■	
<b>Detroit Diesel</b>			
Detroit Diesel Power Guard 93K214	■		
Detroit Diesel Power Guard 93K215	□		
Detroit Diesel, 7SE270 2-Stroke Cycle*	□	□	
Detroit Diesel, 7SE273 (Series 2000/4000)	□	□	
<b>Ford</b>			
Ford M2C171-C	□	□	□
Ford M2C171-D	□	□	
<b>Mack</b>			
Mack EO-M / EO-M Plus	□	□	■
Mack EO-N PP	□	□	
Mack EO-N PP '03	■	■	
<b>Volvo</b>			
Volvo VDS-2	□	□	
Volvo VDS-3	■	□	
<b>Other</b>			
GLOBAL DHD-1	□		
JASO DH-1	□		
JASO MA, MA2	□	□	
MAN 3275	□		
MB 228.1	□		
MB 228.3	■		
MTU Type 2	■		
Renault VI RLD-2	■		
Scania LDF, LDF-2	□		

\* 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.

## Applications

### Diesel Engine Manufacturers

DURON XL Synthetic Blend engine oils can be used in Caterpillar, Detroit Diesel (4-stroke), Navistar International, Allis-Chalmers, Case IH, Deere, Fiat-Allis, White, DAF, Deutz, Continental, Hino, Komatsu, Perkins, Izusu, Volvo, and others where pre-2007 emissions service classifications are recommended.

### Gasoline Engines

DURON XL Synthetic Blend 15W-40 and 10W-40 engine oils may be used in gasoline engines requiring API SL or an earlier specification. DURON XL Synthetic Blend 0W-30 may be used when API-SJ is required. Consult your owner's manual.

All grades may be used in certain natural gas fuelled automotive and stationary equipment. Check your owner's manual for specific engine oil requirements.

### Stationary & Marine type Diesel Engines

DURON XL Synthetic Blend 15W-40 may be used in diesel-fuelled stationary and marine systems where an SAE 15W-40 diesel engine oil is specified and water separation is not required.

### Car & Light Duty Truck Diesel Engines

All grades can be used in diesel engines in smaller vehicles, including cars and light trucks where API CI-4 Plus, CI-4, CH-4, CF or earlier specifications are required. Consult your owner's manual.

### Transmission and Hydraulics

DURON XL Synthetic Blend engine oils serve as an excellent transmission and hydraulic fluid where engine oil is specified. Duron XL oils meet the CAT requirements for hydraulic oil by containing more than 0.09 percent (900 ppm) zinc and meeting ECF 1-a, ECF-2.

## TYPICAL PERFORMANCE DATA

PROPERTY	ASTM TEST METHOD	DURON XL 15W-40	DURON XL 10W-40	DURON XL 0W-30
Flash Point, °C / °F	D92	235 / 455	239 / 462	227 / 441
Kinematic Viscosity	D445			
cSt @ 40°C / SUS @ 100°F		114 / 584	106 / 555	62.5 / 317
cSt @ 100°C / SUS @ 210°F		15.5 / 81.0	15.7 / 81.7	11.3 / 64.3
Viscosity Index	D2270	144	157	178
High Temp/High Shear Viscosity cP @ 150°C	D4683	4.4	4.4	3.4
Cold Cranking Viscosity, cP @ °C / °F	D5293	5179 (-20 / -4)	6500 (-25 / -13)	5590 (-35 / -31)
Pour Point °C / °F	D5950	-48 / -54	-45 / -49	-48 / -54
Borderline Pumping Viscosity, cP @ °C / °F	D4684	15350 (-25 / -13)	23000 (-30 / -22)	18250 (-40 / -40)
Sulphated Ash, % wt.	D874	1.37	1.37	1.18
Total Base No. (TBN), mg KOH/g	D2896	9.6	9.7	9.1

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  
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You can also e-mail us at [lubecsr@suncor.com](mailto:lubecsr@suncor.com)



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