



## DURON™ GEO LD 15W-40 NATURAL GAS MOBILE ENGINE OIL

### Introduction

DURON GEO Long Drain (LD) 15W-40 natural gas mobile engine oil delivers superior engine protection and extended drain\* capabilities for Compressed Natural Gas/Liquefied Natural Gas (CNG/LNG) engines in mobile applications. Specifically designed for extended drain intervals up to or beyond 1200 hours while protecting critical engine parts, DURON GEO LD 15W-40 can help minimize downtime and service costs by keeping units on the road longer. In addition to extended oil drains, DURON GEO LD 15W-40's proven technology helps CNG/LNG engines start with ease in cold weather, while retaining protection under high temperature operating conditions. With DURON GEO LD 15W-40's best-in-class all-weather protection, engines perform the way they were meant to while critical engine parts are lubricated and protected.

Made with base oils that are 99.9% pure and blended with proven premium additives, DURON GEO LD 15W-40 outperforms demanding OEM specifications such as Cummins CES 20085 and Detroit Diesel 93K216.

### Features and Benefits

- **Extended Drains\***
  - Extending oil drains up to 1200 hours can help minimize downtime, maintenance costs and waste to the environment
- **Less Oil Consumption**
  - Low volatility base oils decrease vapourization so less oil is lost, efficiency is improved, and the oil retains more of its fresh oil properties
  - Reduces oil top-up frequency
- **Advanced Engine Protection**

- Ultra pure, consistent quality base oils help minimize engine sludge and deposits, thereby maintaining excellent engine condition
- Protection and performance that exceed the expectations of the leading OEMs
- Optimized oil ash content to suit engine operating conditions
- **Better Low Temperature Pumpability**
  - Exceptional cold start protection
  - Excellent low temperature pumpability to protect equipment
- **Better Shear Stability**
  - High Viscosity Index (VI) base oils and shear stable viscosity modifier help maintain proper oil viscosity for reduced engine wear and improved engine protection over the life of the oil
- **Better Component Protection from Corrosion**
  - Extended component life through corrosion protection in presence of contaminants and acidic degradation products
- **Better Resistance to Oxidative Thickening**
  - Helps maintain peak fuel economy
  - Enables extended drain intervals
  - Ensures continued low temperature protection

### Applications

DURON GEO LD 15W-40 is recommended for use in natural gas fuelled engines – CNG/LNG – in mobile applications that require excellent wear control. It is recommended for use in gas engines where oils meeting Cummins CES 20085 and Detroit Diesel 93K216 specifications are specified.

#### 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. Refer to owner's manual or operations and maintenance manual for complete information.

## Approvals and Recommendations

■ Approved

Approvals	DURON GEO LD 15W-40
Cummins	
Cummins CES 20085	■
Detroit Diesel	
Detroit Diesel DFS 93K216	■

## Typical Performance Data

PROPERTY	ASTM TEST METHOD	DURON GEO LD 15W-40
Kinematic Viscosity, cSt @ 40 °C	D445	114
cSt @ 100 °C		15.4
Viscosity Index	D2270	142
Pour Point, °C / °F	D5950	-33 / -28
High Temperature High Shear, Viscosity, cP @ 150 °C	D4683	4.2
Flash Point, COC, °C / °F	D92	242 / 468
Cold Cranking Viscosity, cP @ -20 °C/ -4 °F	D5293	4,790
Borderline Pumping Viscosity, cP @ -25 °C/ -13 °F	D4684	15,700
Base Number (BN), mg KOH/g	D2896	5.9
Sulphated ash, % wt	D874	0.80
Zinc, mass %	D4951	0.088

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

## Health and Safety

To obtain Material Health and Safety Data Sheets, contact one of Petro-Canada's TechData Info Lines.

## TechData Info Lines

If you are an **existing customer** looking 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/Europe/Asia** . . . . . Phone +1-866-957-4444

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



If you would like to **become a Petro-Canada lubricants customer** and require more information about specialty fluids, oils and greases that 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 0800-589-4751  
**China** . . . . . Phone +86 (21) 6362-0066

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