



DURON™ SINGLE GRADE HEAVY DUTY ENGINE OILS

Introduction

Petro-Canada DURON Single Grade Engine Oils are designed to lubricate engines in heavy duty service, fueled by diesel, gasoline, propane, or compressed natural gas (CNG). DURON Single Grade Engine Oils are suitable for some highway equipment and a wide range of off-highway applications, such as mining, forestry, construction, and farming. They are also used in many stationary and marine applications.

Petro-Canada DURON Single Grade Engine Oils are blended from 99.9% pure base oils manufactured using a patented HT purity process and the advanced additive technology. Extensive testing including fleet trials in a variety of situations has clearly established the outstanding qualities of DURON Engine Oils.

Features and Benefits

- **Outstanding resistance to lubricant breakdown caused by high temperatures**
 - Reduces deposits of varnish, sludge and carbon on engine parts
 - Extends engine overhaul intervals
- **Outstanding soot dispersion**
 - Reduces wear due to abrasive soot particles
 - Minimizes deposits on pistons and rings
 - Improves lubrication because oil-ways stay clean
- **Superior anti-wear protection**
 - Reduces wear on rings, liners and valve-lifters
 - Increases bearing life
 - Extends engine overhaul intervals

Applications

Petro-Canada DURON Single Grade Engine Oils are formulated to meet the following requirements:

Engine Service Classifications

SAE Grade	API Category	Also suitable for use where recommended
10W	CF	CD, SG
20	CF/SJ	CD, SH, SG
30	CF-2, CF/SJ	CF-4, CE, CD-II, CD, SH, SG
40	CF-2, CF/SJ	CD-II, CD, SH, SG
50	CF-2, CF	CD-II, CD, SG

U.S. Military Specifications

Meets the performance requirements of U.S. Military CID A-A-52306 (SAE 30 & 40 grades).

Diesel Engines

DURON Single Grade Engine Oils meet the warranty requirements of the following manufacturers in the SAE grade recommended by the manufacturer:

Cummins, Mack, Detroit Diesel, Caterpillar (SAE 30 & 40 grades are suitable where Caterpillar 3600 is specified), Deere, Navistar International, Allis-Chalmers, Case IH, Fiat-Allis, GMC, Volvo, White, Deutz, Continental, Hino, Komatsu, Perkins, Fairbanks.

Gasoline Engines

DURON Single Grade Engine Oils meet the requirements of API SJ and may be used in gasoline engines where single grade engine oil is recommended. Consult your owners manual.

What is the HT difference?

Petro-Canada starts with the patented 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.



Transmissions and Hydraulics

- Caterpillar powershift transmissions, semi-automatic transmissions and torque converters, where a TO-2 fluid is specified
- Allison transmissions and torque converters, where a C-4 fluid is specified
- Hydraulics - DURON 10W is an excellent hydraulic fluid, where an SAE 10W engine oil is specified
- Wet clutch transmissions, including motorcycles & all terrain vehicles where a JASO-MA is specified.

Marine and Stationary Engine Applications

DURON Single Grade Engine Oils are suitable for use in medium and high speed crankcase applications where the engine operates on distillate fuel and water separation is not required.

Caution Regarding Marine Storage:

- Risk of water contamination of product. DURON™ Single Grade Engine Oils accept minor water contamination, however gross contamination may result in problematic emulsions.

Typical Performance Data

PROPERTY	TEST METHOD	DURON					
		10W	20	30	40	50	
Flash Point, °C/°F	D92	194 / 381.2	231 / 448	249 / 480	261 / 502	249 / 480	
Kinematic Viscosity	D445	cSt @ 40°C / SUS @ 100°F	41.5 / 213	64.9 / 334	83.2 / 429	131.1 / 684	209 / 1100
		cSt @ 100°C / SUS @ 210°F	6.8 / 49	9.1 / 57	11.2 / 64	14.4 / 77	19.3 / 97
Viscosity Index	D2270	119	118	123	109	105	
High Temp/High Shear Viscosity cP @ 150°C	D4683	2.4	2.7	3.5	4.3	5.3	
Cold Cranking Viscosity, cP @ °C	D5293	4,606 @ -25 -	2,822 @ -15 4,932 @ -20	- -	- -	- -	
Pour Point, °C / °F	D5950	-42 / -44	-39 / -38	-36 / -33	-30 / -22	-21 / -6	
Borderline Pumping Viscosity, cP @ °C	D4684	9,670 @ -30	-	-	-	-	
Sulphated Ash, % wt	D874	1.0	1.0	1.0	1.0	0.9	
Total Base No.	D2896	8.0	7.9	7.9	7.9	7.9	

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

If you would like to know more about Petro-Canada's DURON Single Grade Engine Oils, or any other product in our complete line of quality lubricants, please contact us at:

Lubricants Head Office
Petro-Canada
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