PETRO-CANADA LUBRICANTS

AN HF SINCLAIR BRAND

TECH DATA

DURON™ ADVANCED HEAVY-DUTY DIESEL ENGINE OILS

INTRODUCTION

Petro-Canada Lubricants' DURON™ ADVANCED premium performance synthetic and synthetic blend multigrade diesel engine oils deliver industry leading fuel economy improvements and protection against increased wear. They are formulated to exceed the requirements of API FA-4 and are suitable for use in 2017 and future engines which specify the use of an API FA-4 licensed oil. DURON heavy-duty engine oils are suitable for use in engines powered by both ultra low and low sulphur diesel fuel. DURON ADVANCED (and all API FA-4 oils) have limited backwards compatibility with older engines as these oils are specifically engineered for newer engines designed to meet new legislation around emissions and fuel economy. These engines will operate using engine oil having a lower high temperature high shear (HTHS) viscosity, meaning less friction and viscous drag in the engine which enables reduced fuel consumption, while still offering increased levels of wear protection.

DURON ADVANCED oils are formulated with high quality basestocks and best in class performance additives. DURON ADVANCED oils are formulated to the highest API diesel standards for 4-Stroke engine oils and are suitable for use in extended oil drain service. Extending drain intervals should always be undertaken with good operating practices and maintenance programs including an oil analysis program. Contact your Petro-Canada Lubricants technical representative for additional information and assistance.

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DURON

THE TOUGHER. THE BETTER.

FEATURES AND BENEFITS

DURON ADVANCED premium heavy-duty diesel engine oils offer a number of performance features which include:

Ultimate wear protection

- Superior engine protection
- Maximized uptime and helps lower maintenance costs
- Helps extend engine life
- Extends drain intervals†

Fuel economy benefits

- FA-4 provides additional fuel savings over CK-4 of the same grade, up to 1%*

Maintains shear stability

- Exceptional after shear viscosity retention helps protect engines

Reduced oxidative thickening

- Maintains low temperature performance

Reduced piston deposits

- Excellent engine protection and cleanliness
- Helps maintain engine power and fuel efficiency

Corrosion protection

- Helps prevent corrosion, particularly in idling equipment

Reduced oil consumption

- Reduces the need for top-up oil

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

Emission system friendly

- Low ash formula helps prevent premature DPF plugging and shortened maintenance intervals

Petro-Canada Lubricants specialty fluids, lubricants and greases have an advantage in quality and performance. That's because our formulas are created and reviewed by an expert team of Research & Development specialists who ensure our finished products deliver to the specifications we demand and the performance standards our customers need.

† Extending drain intervals should always be undertaken in conjunction with an oil analysis program.
* Comparing an SAE 10W-30 with 3.5cP HTHS vs a 10W-30 with 3.1cP HTHS.

APPROVALS AND RECOMMENDATIONS

★ Approved ● Suitable For Use ✓ Meets Specifications

Products	DURON ADVANCED 10W-30	DURON ADVANCED 5W-30
API	★ FA-4	★ FA-4
Cummins	★ CES 20087	★ CES 20087
Detroit Diesel	★ DFS 93K223	★ DFS 93K223
Ford	✓ WSS-M2C214-B1	✓ WSS-M2C214-B1

APPLICATIONS

Car and Light Duty Diesel Engines

DURON ADVANCED oils are also suitable for use in diesel powered engines in smaller vehicles, including passenger cars and light trucks where API FA-4 is required. Consult the owner's manual to ensure this fluid is right for the vehicle.

TYPICAL PERFORMANCE DATA

Property	ASTM TEST METHOD	DURON ADVANCED 10W-30	DURON ADVANCED 5W-30
Flash Point, COC, °C / °F	D92	227 / 440	217 / 422
Kinematic Viscosity cSt @ 40°C cSt @ 100°C	D445	 66.2 10.3	 56.3 9.96
Viscosity Index	D2270	143	165
High Temp/High Shear Viscosity cP @ 150°C	D4683	3.1	3.1
Cold Cranking Viscosity, cP @ °C/°F	D5293	4900 (-25 / -13)	5160 (-30 / -22)
Pour Point, °C / °F	D5950	-42 / -44	-39 / -38
Borderline Pumping Viscosity cP @ °C/°F	D4684	13,100 (-30 / -22)	19,700 (-35/-30)
Sulphated Ash, % wt	D874	1.0	1.0
Base No. (BN), mg KOH/g	D2896	10.0	11.8

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

Learn more about us: **lubricants.petro-canada.com**
Contact us: **lubecsr@hfsinclair.com**

Committed to the disciplined operation of our business.

CERTIFIED
ISO 9001: 2015
ISO 14001: 2015
IATF 16949: 2016

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