



## DURON™-E SYNTHETIC 0W-40 HEAVY DUTY ENGINE OIL

### Introduction

DURON-E Synthetic 0W-40 is an advanced soot controlling formulation and it delivers the ultimate in cold temperature performance by maintaining exceptional cold cranking and cold pumping abilities throughout the life of the oil. This results in faster cold start-ups and better low temperature protection throughout extended service intervals. Industries such as Mining, Heavy Duty Construction, Drilling, Forestry and Fleet rely on DURON-E Synthetic 0W-40 because of its ability to minimize engine stress and wear in some of the harshest operating conditions on earth.

DURON-E Synthetic 0W-40 is based on the same API CJ-4 / SN performance additive technology used for DURON-E 15W-40. It is suitable for use in today's most advanced engines and is fully backed in applications where 0W-40 CJ-4 quality oil is specified by Petro-Canada's No-Nonsense Warranty. DURON-E Synthetic 0W-40 is also suitable for use in older, pre-2007 engines.

DURON-E Synthetic 0W-40 is specially formulated with a unique high performance additive system in combination with high quality synthetic base oils. DURON-E Synthetic 0W-40 may be used in extended oil drain interval service in extreme cold climates\*. In addition to product performance, critical success factors in extending service intervals include good operating practices and maintenance programs. Contact your local Petro-Canada technical representative for additional information and assistance.

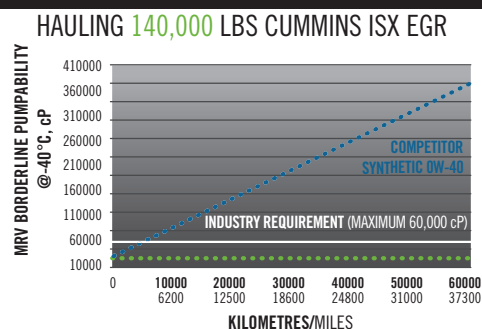
### Features and Benefits

- **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

- **Exceptional low temperature protection and performance**
  - Faster cold weather start-ups and exceptional cold-pumping abilities which minimize engine stress and wear
- **Extend equipment life and reduce operating costs**
  - Retains fresh oil properties longer
  - Advanced soot dispersion capability
  - Provides very good top-up performance
- **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 versus a 15W-40 engine oil

### EXCEPTIONAL COLD PUMPABILITY PERFORMANCE BEYOND 60,000 KILOMETERS

..... DURON-E SYN 0W-40 (CJ-4 CHEM) MRV BORDERLINE PUMPABILITY  
 ..... MAJOR COMPETITOR SYN 0W-40 (CJ-4 LICENSED) MRV BORDERLINE PUMPABILITY



Major Competitor CJ-4 Licensed Synthetic 0W-40 oil quickly deteriorates in cold pumpability performance - surpassing the industry fresh oil limit requirement and yielding stress on the engine\*\*.

\*Extending drain intervals should always be undertaken in conjunction with a regular oil analysis program, in addition to checking OEM recommendations.

\*\* Results shown above are based on used oil analysis data from large on-highway fleet in Cummins ISX EGR engine. Results are not guaranteed and can vary due to many factors including, but not limited to: equipment make, model, age and condition; maintenance practices; driver behaviour; load; and operating conditions.

## Applications

DURON-E Synthetic 0W-40 meets the physical property requirements of SAE J300 for this viscosity grade and is formulated using CJ-4 technology.

### Gasoline Engines

DURON-E Synthetic 0W-40 is suitable for use in most engines operating on gasoline or natural gas fuel where API SM or earlier specifications are required. This includes passenger car and light duty truck applications where API SM or earlier specifications are required.

## Typical Performance Data

PROPERTY	TEST METHOD	DURON-E SYN 0W-40
Flash Point, °C / °F	D92	227 / 441
Kinematic Viscosity cSt @ 40°C / SUS @ 100°F	D445	82 / 415
Kinematic Viscosity cSt @ 100°C / SUS @ 210°F		14.3 / 76
Viscosity Index	D2270	181
High Temp/High Shear Viscosity, cP @ 150°C	D4683	3.9
Cold Cranking Viscosity cP @ °C / °F	D5293	5,400 (-35 / -31)
Pour Point °C / °F	D5950	-57 / -71
Borderline Pumping Viscosity cP @ °C/°F	D4684	24,300 (-40 / -40)
Sulphated Ash, % wt	D874	<1.0
Total Base Number (TBN), mg KOH /g	D2896	8.5

## 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)



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 :

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