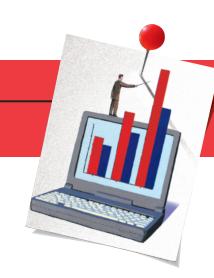
Petro-Canada

TechData

RALUBETM 940 CF RAILWAY ENGINE OIL





Introduction

RALUBE 940 CF is an SAE 20W-40, 9 TBN railway diesel engine oil designed to address the EPA fuel and emission standards for 2011 and is suitable for use with current and late model EMD and GE units operating on low- and ultra-low sulphur diesel fuels.

RALUBE 940 CF is designed to address emerging fuel and emission standards in late model engines in a wide range of railroad, inland marine, and stationary engine applications. RALUBE 940 CF has reduced ash content relative to traditional 13- and 17- TBN Railway Engine Oils.

While RALUBE 940 CF has a lower starting TBN, field data has demonstrated that its TBN retention (i.e. rate of TBN depletion) is superior to products having higher starting TBN values. Furthermore, RALUBE 940 CF will provide service life on par with other conventional railway engine oils in engines operating with low and ultra-low sulphur diesel fuels.

Features and Benefits

- Lower maintenance costs and longer engine life
 - Resists formation of deposits
 - Excellent corrosion control
 - Exceptional Total Base Number (TBN) retention
 - · Extends filter life
 - First-rate protection against wear and protection of yellow metals

Outstanding oxidation and thermal stability

- Sludge-soot handling and viscosity control
- · Reduces filter plugging

Zinc-free formulation

Provides protection of silver engine components

Chlorine-free

Improved used oil disposal / recycling options

Applications

Ralube 940 CF is recommended for use in large medium-speed railroad diesel engines operating with low and ultra-low sulphur diesel fuels. Ralube 940 CF is suitable for use where the following are required:

- LMOA Gen 5
- EMD Approval
- GE 4LL Approval

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.



Typical Performance Data

PROPERTY	ASTM TEST METHOD	RALUBE 940 CF
Flash Point, °C / °F	D92	271/520
Kinematic Viscosity		
cSt @ 40 °C / SUS @ 100°F	D445	135/704
cSt @ 100 °C / SUS @ 210°F		14.7/78
Low-Temperature Cranking, cP @ -15 °C	D5293	8,450
Viscosity Index	D2270	110
Pour Point, °C / °F	D5950	(-24/-11)
Sulphated Ash, % wt	D874	1.0
Total Base No. (TBN), mg KOH/g	D2896	9.2
Elemental Analysis ppm Zn	D4951	<5

Health and Safety

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

TechData Info Lines

If you would like to know more about Petro-Canada Ralube railway engine oils, or any other product in our complete line of quality lubricants, please contact us at:

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CERTIFIED
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ISO/TS 16949

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