



A HOLLYFRONTIER BUSINESS

# TECH DATA

## RALUBE™ 940 CF

## INTRODUCTION

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

RALUBE 940 CF is designed for use 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- BN Railway Engine Oils.

While RALUBE 940 CF has a lower starting BN, field data has demonstrated that its BN retention is superior to products having higher starting BN values. Furthermore, RALUBE 940 CF will provide good service life 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 Base Number (BN) retention
- Extends filter life
- First-rate proven 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 6
- EMD Approval
- GE Gen 4 Long Life Approval

Petro-Canada Lubricants 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.



## TYPICAL PERFORMANCE DATA

Property	ASTM TEST Method	RALUBE 940 CF
Flash Point, COC, °C/°F	D92	271 / 520
Kinematic Viscosity cSt @ 40°C cSt @ 100°C	D445	136 14.3
Viscosity Index	D2270	107
Cold Cranking, cP @ -15°C	D5293	8,560
Pour Point, °C/°F	D5950	-27 / -17
Sulphated Ash, % wt	D874	1.0
Base No. (BN), mg KOH/g	D2896	9.0
Elemental Analysis Zinc, ppm Phosphorus, ppm	D4951	<5 65
Elemental Analysis Sulphur, %	D4294	0.26

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

Learn more about us: [lubricants.petro-canada.com](http://lubricants.petro-canada.com)  
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Committed to the disciplined operation of our business.



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