



Railroad Diesel Engine Oil 20W40 (Generation 5)

Railroad Diesel Engine Oils 20W40 is a premium grade, heavy duty, crankcase oil, designed for use in railroad diesel engines of American origin, particularly those manufactured by General Electric and General Motors Electro-Motive Division (EMD). It does not contain zinc and therefore can be used in engines fitted with silver piston-pin bearings.

TYPICAL APPLICATIONS

Railroad Diesel Engine Oil 20W40 is designed specially for use in highly rated railroad engines subjected to the most severe operating conditions, especially where fuel sulphur is high (**approximately 1%**) and where long oil drain intervals are required.

Applications are primarily for railroad locomotives; however, Railroad Diesel Engine Oil 20W40 may also be suitable for certain engines in power.

PERFORMANCE

- **Good detergency and dispersancy properties** - A carefully balanced combination of detergency and dispersancy ensures outstanding engine cleanliness.
- **Good oxidation and thermal stability** - Good protection against corrosion by the acidic bi-products of combustion

PERFORMANCE – Cont'

- **High viscosity index base oils** - Provides a higher level of protection than lubricants based on naphthenic mineral oils.
- **Seal & Paint Compatibility** - Railroad Diesel Engine Oils 20W40 is compatible with all seal materials and paints normally specified for use with mineral oils.
- **Good anti-wear properties** - Maintains a protective film between pistons and their rings and cylinder walls, even under high operating temperatures and pressures.

PERFORMANCE SPECIFICATIONS

API Service Classification – CF

EMD - Worthy of full scale field Test (WOFT)

General Electric - Gen 4 –Long life
LMOA -Generation 5

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*Spectra Railroad Diesel
Engine Oil 20W40 (GEN V)*

Updated 06/2020

TYPICAL PHYSICAL CHARACTERISTICS

Railroad Diesel Engine Oil	20W40
SAE Viscosity Grade	20W40
Kinematic Viscosity @ 40°C (ASTM 445)	121.0
Kinematic Viscosity @ 100°C (ASTM 445)	14.7
Dynamic Viscosity @ -15°C (ASTM 5293)	9500 max
Viscosity Index	122
TBN (mgKOH/g)	13
Flash Point (°C)	250
Pour Point (°C) (ASTM D97)	-9

HEALTH AND SAFETY

Railroad Diesel Engine Oil 20W40 is unlikely to present any significant health or safety hazard when properly used in the recommended application, and good standards of industrial and personal hygiene are maintained.

Avoid contact with skin. Use impervious gloves with used oil. After skin contact, wash immediately with soap and water.

For further guidance on Product Health & Safety, refer to appropriate Product Safety Data Sheet.

FOR MORE INFORMATION

Advice on application not covered in this leaflet may be obtained from your Spectra Representative. See contact details below.

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