



Signal Railguard 40w Engine Oil

Product Application:

Signal Railguard 40w Oil is a zinc free, chlorine free engine Oil. It is designed to meet the changing needs of today's railroad diesel engines in light of progressive emission standards and the use of low sulfur and ultra low sulfur fuels. It offers reduced SAPS (sulfated ash, phosphorus and sulfur); advanced detergency and dispersancy technology and increased yellow metal anti-wear protection critical to satisfactory operation and long component life of exhaust after treatment devices such as particulate filters and oxidation catalysts. The exceptional Total Base Number retention and oil consumption reduction characteristics of the oil are directly linked to its superior oxidation control, viscosity retention, shear stability, acid production control and wear protection. Signal Railguard 40w Engine Oil offers the highest levels of oil performance and quality to insure superior engine productivity, maximum power utilization and reduced life-cycle maintenance cost.

Signal Railguard 40w Engine Oil is specifically designed for use in medium-speed two-cycle and four cycle diesel engines such as those typically employed in railroad locomotives and certain marine applications.

Package Size:

Bulk, Drums, Pails

Meets or Exceeds the following Specifications:

- * LMOA Generation VI
- * General Electric Generation 4, Long Life
- * Internal Listing with Electro-Motive Diesel (EMD)

Typical Characteristics:

Gravity, API	27.8
Density, lbs/gal (g/L)	7.397 (886)
Viscosity, cSt @ 40°C	137
Viscosity, cSt @ 100°C	14.7
Viscosity Index	106
Pour Point, °F (°C)	0 (-18)
Flash Point, °F (°C)	450 (232)
Color	Opaque
TBN, (mg KOH/g)	9.2
Sulfated Ash, mass %	1.0
Zinc, ppm (max)	10
KF Moisture, ppm (max)	1000

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