



## Railroad Engine Oil 20W-40

Product Code:78430

Diesel Locomotive Engine Oil

**Railroad Engine Oil 20W-40** is a high performance, zinc-free and chlorine-free oil specially designed to provide excellent engine cleanliness and oil filter life in the modern railroad diesel locomotive engines.

**Railroad Engine Oil 20W-40** is based on high quality virgin mineral base oil in combination with an unique additive package to ensure the following properties:

- Exceptional detergency and dispersancy provides excellent engine cleanliness, especially engine top decks.
- Excellent retention of TBN facilitates extended drain intervals.
- High thermo-oxidative.
- Zinc-free formulation protects silver bearings against corrosion.
- Non-chlorinated additive package helps in reducing used oil disposal costs.

**Railroad Engine Oil 20W-40** exceeds the following performance criteria:

LMOA Gen 7  
 Wabtec (formerly GE) Tier 4 engines  
 Progress Rail (formerly EMD) Tier 4 engines

### Typical Analysis

Properties	Unit	Method	Typical Value
SAE Grade		SAE J 300	20W-40
Density @15°C	kg/m <sup>3</sup>	ASTM D4052	874
Kin. Viscosity @40°C	mm <sup>2</sup> /s	ASTM D7042	133
Kin. Viscosity @100°C	mm <sup>2</sup> /s	ASTM D7042	15.0
Viscosity Index		ASTM D2270	115
Flash Point COC	°C	ASTM D92	>200
Pour Point	°C	ASTM D7346	-24
Total Base Number	mgKOH/g	ASTM D2896	10.5
Sulphated Ash	%Wt	ASTM D874	1.1

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