

RAILROAD POWER 413

Diesel Locomotive Engine oil

RAILROAD POWER 413 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 POWER 413 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 stability.
- Zinc-free formulation protects silver bearings against corrosion.
- Non-chlorinated additive package helps in reducing used oil disposal costs.

RAILROAD POWER 413 meets the following performance criteria:

API CF/CF-2
GE Diesel Engines

LMOA Generation 5
GE as Generation 4 Long Life Oils

EMD of General Motors
Caterpillar 3600

Typical Analysis

Properties	Unit	Method	Typical Value
SAE Grade		SAE J300	40
Density @15 °C	kg/m ³	ASTM 4052	895.9
Kinematic Viscosity @ 40 °C	mm ² /s	ASTM D7042	155..1
Kinematic Viscosity @ 100 °C	mm ² /s	ASTM D7042	15.6
Viscosity Index		ASTM D2270	102
Flash Point COC	°C	ASTM D92	>201
Pour Point	°C	ASTM D7346	-24
Total Base Number	mgKOH/g	ASTM D2896	13,8
Sulphated Ash	%Wt	ASTM D874	1.5
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