

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 LMOA Generation 5 EMD of General Motors

GE Diesel Engines GE as Generation 4 Long Life Oils

Typical Analysis

Properties	Unit	Method		Typical Value
SAE Grade		SAE J300		40
Density @15°C	kg/m³	ASTM 4052		891
Kinematic Viscosity @ 40°C	mm²/s	ASTM D704	2	150
Kinematic Viscosity @ 100°C	mm²/s	ASTM D704	2	15.1
Viscosity Index		ASTM D227	' O	102
Flash Point COC	°C	ASTM D92		>201
Pour Point	°C	ASTM D734	.6	-18
Total Base Number	mgKOH/g	ASTM D289	6	13,9
Sulphated Ash	%Wt	ASTM D874		1.5
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