

# LUKOIL M-14D2

High performance Zn-free rail-road diesel engine oil

## APPROVED

**General Electric** GE Generation 4 Long Life

## MEETS REQUIREMENTS

**API** CF/CF-2

**LMOA** (Locomotive Maintenance Officers Association) Generation V

**Caterpillar** (in CAT 3600s (pass Caterpillar Micro-Oxidation test))

## PRODUCT DESCRIPTION

**LUKOIL M-14D2** is a high performance high alkaline diesel engine lubricant.

**LUKOIL M-14D2** is formulated with mineral base oils and proven zinc-free additive technology that provide corrosion protection and decreasing of sludge formation in locomotive engines. Non-chlorinated formulation of **LUKOIL M-14D2** helps to reduce maintenance costs.

**LUKOIL M-14D2** is new railroad engine oil designed for diesel locomotive engines and exceeds latest lubricating oil classification systems requirements such as LMOA Generation V and GE Generation IV Long Life.

**LUKOIL M-14D2** meets requirements and has wide experience of application in General Electric loco engines. Formulated to provide unsurpassed engine cleanliness, soot handling, and oil filter life in late model EMD and GE engines in a wide range of railroad, inland marine and stationary engine applications.

Product is manufactured according to TU 0253-131-00148636-2003

## APPLICATION

**LUKOIL M-14D2** is recommended for diesel engines, particularly those where a zinc-free product is required.

## BENEFITS

- Corrosion resistance improves engine service life, reducing costs
- Good deposit and wear control increase component reliability and uptime
- Improved engine oil efficiency and cost savings due to excellent ring and liner wear protection and extended oil filter life
- High TBN protects against acid formation and engine damage when running on high-sulphur fuels
- High alkalinity controls corrosive ring and liner wear, reducing maintenance time
- Extended oil drain intervals in modern low oil consumption engines

## TYPICAL TEST DATA

PROPERTY	Units	Test methods	LUKOIL M-14D2
SAE Grade			40
Density at 20 °C	kg/m <sup>3</sup>	GOST 3900	890.3
Kinematic viscosity at 100°C	mm <sup>2</sup> /s	GOST 33	14.9
Flash Point COC	°C	GOST 4333	269
Pour Point	°C	GOST 20287	-20
Total base number	mg KOH/g	ASTM D 2896	13.5

The information given in the typical data does not constitute a specification but is an indication based on current production and can be affected by allowable production tolerances. The right to make modifications is reserved by OOO "LLK-International".