

EPPCO SIKKA ZF 413

PRODUCT DESCRIPTION

EPPCO SIKKA ZF 413 oil has been developed for high output medium speed diesel engines requiring “Zinc-free”, LMOA (Locomotive Maintenance Officers Association) Generation 5 lubricant used in locomotive, marine and stationary service applications. This railroad oil is formulated from high quality paraffinic base oils and incorporate special detergent-dispersant technology for engines burning high sulphur distillate fuels.

APPLICATIONS

- ◆ Medium speed two-stroke and four-stroke railroad diesel engines
- ◆ GM EMD railroad engines (SAE 40)
- ◆ General Electric railroad engines (SAE 40)
- ◆ Detroit Diesel two-stroke engines burning >0.5 m% sulphur fuel
- ◆ Stationary generator sets including Caterpillar 3600 series engines

RECOMMENDATIONS

EPPCO SIKKA ZF 413 oil is specially formulated to lubricate locomotive diesel engines which are fitted with silver alloy bearings that require zinc-free lubricants. In addition, it is non- chlorine lubricant and the additive system provides excellent control of piston and ring deposits and is highly dispersant for soot control.

PERFORMANCE STANDARDS

LMOA Generation 5; SAE 40 grade
 General Motors – EMD Generation 5
 General Electric – Generation 5 LL (Long Life)
 Caterpillar 3600 series
 API CF / CF-2

Always follow equipment manufacturers recommendations for required lubricant performance levels and viscosity grades.

BENEFITS

EPPCO SIKKA ZF 413 Oil provides:

- ◆ Protection of Silver alloy bearings through special zinc-free anti-wear additive system
- ◆ Maximum engine protection against corrosive wear
- ◆ Effective control of high temperature deposits and highly dispersant to control soot
- ◆ Extended oil drain with high sulphur fuel through good base number retention
- ◆ High thermal and oxidation stability to maintain long periods of engine cleanliness

Technical Data*	
Product Grade	413
SAE Grade	40
Viscosity, mm ² /s @ 40°C	138.2
mm ² /s @ 100°C	14.53
Flash Point, COC, °C	248
Pour Point °C	-15
Sulphated Ash, %wt.	1.4
Total Base Number ASTM D-2896	13
Zinc ppm	<10
Chlorine, ppm. Max.	<50
Product Code	356002

*The information prepared provides the typical properties that are considered as representative. Some variation which will not affect performance is possible

HEALTH AND SAFETY, ENVIRONMENT

The information on this product is available in the EPPCO Material Safety Data Sheet (MSDS) as a guide to the precautions and safe handling of this product and its disposal. For further information we recommend you review the MSDS. Handled correctly there are no special precautions suggested.