



448X - SAE 40

Formulated from High Viscosity Index (HVI) base oil and high quality additive which meets railroad diesel engine oil requirement.

DILOKA 448X is free from zinc and chlorine. It is also designed to provide minimum 180 days oil drain interval.

DILOKA 448X gives improved alkalinity reserve, detergency, and anti-oxidation performance. This performance meets the requirement of fuel and low oil consumption diesel locomotive engines.

Diformulasikan dari base oil *High Viscosity Index* (HVI) dengan aditif khusus bermutu tinggi yang memenuhi persyaratan mesin diesel kereta api.

DILOKA 448X bebas kandungan *zinc* dan *chlorine*. Pelumas ini juga didesain agar mempunyai masa pakai pelumas minimal 180 hari.

DILOKA 448X memiliki ketahanan *alkalinity*, kemampuan *detergency*, dan anti oksidasi yang lebih baik. Kinerja ini memenuhi kebutuhan mesin diesel lokomotif yang mensyaratkan konsumsi bahan bakar dan pelumas yang lebih rendah.

Typical Characteristics

Characteristics	Test Method	DILOKA 448X
SAE Viscosity Grade	-	40
Density at 15 °C, kg/L	ASTM D4052	0.8930
Kinematic Viscosity at 40 °C, cSt	ASTM D7279	140.0
at 100 °C, cSt	ASTM D7279	14.20
Viscosity Index	ASTM D2270	99
Flash Point, °C	ASTM D92	270
Pour Point, °C	ASTM D97	-12
Total Base Number, mg KOH/g	ASTM D2896	13

SPECIFICATIONS / APPROVALS

- API CF/CF2
- LMOA generation IV Long Life/V
- Caterpillar 3600 SERIES
- GE (General Electric)/Wabtec
- EMD (Electro Motive Diesel)/Progress Rail

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APPLICATIONS

Recommended for railroad diesel engine particularly where LMOA generation IV Long Life/V oils is required.

PENGUNAAN

Direkomendasikan untuk pelumas *crankcase* mesin diesel kereta api, khususnya di mana pelumas LMOA generasi ke IV Long Life/V dibutuhkan.