

Mobilgard[®] M40 Series

ExxonMobil

Product Description

Mobilgard from ExxonMobil products includes the Mobilgard 40 Series (M340 and M440), premium 40 TBN engine oils designed for use in the most severe residual-fueled medium-speed diesel applications. These diesel engine oils have been specially formulated to provide outstanding residual fuel compatibility characteristics for excellent engine cleanliness, especially in crankcase, camshaft areas, ring belt and piston undercrown. They provide excellent high temperature oxidation and thermal stability, low volatility, load carrying properties and corrosion protection.

Benefits

Mobilgard M40 Series oils provide the following benefits when used as recommended:

- Virtually eliminate undercrown deposits

- Provide outstanding lube/fuel compatibility
- Maintain camshaft spaces and crankcase in good condition
- Reduce piston ring belt deposits
- Excellent TBN retention resulting in protection against corrosion and providing long oil life
- Industry leading thermal and oxidation stability for long oil life and good oil consumption control
- Separate easily from water

Applications

Mobilgard M40 Series oils meet the requirement of medium-speed trunk piston engines used as main propulsion and auxiliary diesels on deep-sea vessels; as main propulsion engines on coastal and river ships; and in stationary power applications. This new Series of oils is the result of an extensive research and development program, incorporating ExxonMobil's exclusive RFD (Residual Fuel Detection) test.

Typical Characteristics

Mobilgard	M340	M440
SAE No.	30	40
Specific Gravity, 15°C	0.915	0.915
Flash Point, °C	240	242
Pour Point, °C	-6	-6
Viscosity		
cSt, at 40°C	113	143
cSt, at 100°C	12.0	14.0
Total Base No., Min.	40	40
Sulfated Ash, % wt.	5.0	5.0

Typical physical characteristics of Mobilgard M40 Series are given in the table. These are intended as a guide to industry and are not necessarily manufacturing or marketing specifications.

Applications *(continued)*

Mobilgard M40 Series oils are designed to meet the needs of engines operating on heavy fuel. They are recommended for use in the latest model high-power two- and four-cycle diesel engines. Mobilgard M40 Series oils are especially beneficial in engines having low crankcase oil consumption, or operating with low cylinder liner temperatures, and with fuels having high sulfur content.

Properties

Mobilgard M340 and M440 are formulated to provide excellent resistance to thermal degradation, and to promote a high level of engine cleanliness with protection against wear. They have good resistance to oxidation and viscosity increases over long operating periods. Relatively high alkalinity reserves in these oils provide superior protection in neutralizing the strong acids resulting from the use of high sulfur fuels that find access to the crankcase to promote oil degradation, ring, cylinder and bearing corrosion.

Health and Safety

Detailed health and safety information for each product is provided in a Material Safety Data Sheet which is available upon request from your ExxonMobil Marine Lubricants sales office, or via the Internet on www.exxonmobil.com.