

# Mobilgard® M30 Series

ExxonMobil

## Product Description

Mobilgard from ExxonMobil products includes the Mobilgard 30 Series (M330 and M430), premium 30 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 M30 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 M30 Series oils meet the requirement of medium-speed trunk piston engines used in stationary power applications; as main propulsion and auxiliary diesels on deep-sea vessels; and as main propulsion engines on coastal and river ships. 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	M330	M430
SAE No.	30	40
Specific Gravity, 15°C	0.907	0.907
Flash Point, °C	244	250
Pour Point, °C	-6	-6
Viscosity		
cSt, at 40°C	112	143
cSt, at 100°C	12.0	14.0
Total Base No., Min.	30	30
Sulfated Ash, % wt.	3.8	3.8

Typical physical characteristics of Mobilgard M30 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 M30 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 M30 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 M330 and M430 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](http://www.exxonmobil.com).