

# Mobilgard® M30 Series

Medium-Speed Engine Oils

## Product Description

Mobilgard M330 and M430 are 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
- Separates easily from water

## Applications

Mobilgard M30 Series meets 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 Mobil's exclusive RFD (Residual Fuel Detection) test.

## Typical Characteristics

| Mobilgard              | M330 | M430 |
|------------------------|------|------|
| SAE No.                | 30   | 40   |
| Specific Gravity, 15°C | 0.91 | 0.91 |
| Flash Point, °C        | 244  | 250  |
| Pour Point, °C         | -9   | -6   |
| Viscosity              |      |      |
| cSt, at 40°C           | 112  | 143  |
| cSt, at 100°C          | 12.0 | 14.5 |
| 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 is 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 Mobil lubricants sales office, or via the Internet on [www.mobil.com](http://www.mobil.com).