ExxonMobil

# Mobilgard™ M30 Series

ExxonMobil Marine , Ethiopia

Diesel Engine Oils

## Product Description

Mobilgard™ M30 Series (M330 and M430) by ExxonMobil are premium, extra high performance 30 TBN engine oils designed for use in the most severe residual-fuelled medium-speed diesel applications found in marine and stationary power industries. These outstanding trunk piston engine oils are formulated utilizing high performance additive detergent technology and provide outstanding residual fuel compatibility characteristics for excellent engine cleanliness, especially in crankcase, camshaft areas, ring belt and piston undercrowns. They also demonstrate excellent high temperature oxidation and thermal stability, low volatility, and high load carrying properties and corrosion protection.

## Features and Benefits

Mobilgard M30 Series oils have high performance thermal and oxidation stability. They have excellent TBN retention and resistance to viscosity increases over long operating periods. They also promote a high level of engine cleanliness with protection against wear. Compared to other medium speed engine oils, they have excellent lube/fuel compatibility and separate easily from water.

When used as recommended, Mobilgard M30 Series oils provide the following benefits:

| Features | Advantages and Potential Benefits |
|---|---|
| Excellent thermal and oxidation stability | Reduced deposits in piston undercrown and ring belt areas |
| Improved anti-wear properties | Extends the life of critical wear surfaces |
| Advanced detergency/dispersancy | Clean camshaft and crankcase spaces |
| Outstanding rust and corrosion properties | Protects wear surfaces from water and acidic corrosion |
| High Residual Fuel Compatibility | Reduced sludge formation, longer oil life, cleaner engines |
| Low volatility base stocks | Reduced lubricant consumption |
| Excellent TBN Reserve and Retention | Combats fuel/combustion related corrosion and deposits |

## Applications

Mobilgard M30 Series oils can be used in most medium-speed trunk piston engine applications. They are recommended for use in main propulsion and auxiliary engines on deep-sea vessels; in main propulsion engines on coastal and river ships; and in stationary power plants. This new Series of oils is the result of an extensive research and development program, incorporating ExxonMobil's patented DAC (Detecting Aspahltene Contamination) Test.

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 medium speed diesel engines and are especially beneficial in engines having low crankcase oil consumption or operating with low cylinder liner temperatures. Relatively high alkalinity reserves in these oils provide excellent protection in neutralising the strong acids resulting from the use of high sulphur fuels that find access to the crankcase to promote oil degradation and ring, cylinder, and bearing corrosion.

## Properties and Specifications

| Property | M330 | M430 |
|---|---|---|

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|---|---|---|
| Grade | SAE 30 | SAE 40 |
| Ash, Sulfated, wt%, ASTM D874 | 3.8 | 3.8 |
| Flash Point, Cleveland Open Cup, °C, ASTM D92 | 244 | 250 |
| Kinematic Viscosity @ 100 C, mm2/s, ASTM D445 | 12 | 14 |
| Pour Point, °C, ASTM D97 | -6 | -6 |
| Specific Gravity, 15.6 C/15.6 C, ASTM D4052 | 0.907 | 0.907 |
| Total Base Number, mgKOH/g, ASTM D2896 | 30 | 30 |
| Viscosity Index, ASTM D2270 | 107 | 105 |

**Health and Safety**

Health and Safety recommendations for this product can be found on the Material Safety Data Sheet (MSDS) @ http://www.msds.exxonmobil.com/psims/psims.aspx

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Due to continual product research and development, the information contained herein is subject to change without notification. Typical Properties may vary slightly.

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