ExxonMobil

Mobilgard™ M30 Series

ExxonMobil Marine , Malawi

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

Property	M330	M430
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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