



MOBILGARD M30 SERIES

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-fueled, medium-speed diesel engines used in marine and stationary power applications. These diesel engine oils have been specially formulated to provide outstanding residual fuel compatibility characteristics to deliver excellent engine cleanliness, especially in crankcase, camshaft areas, ring belt and piston undercrowns. They provide excellent high temperature oxidation and thermal stability, low volatility, high load-carrying properties and corrosion protection.

PROPERTIES & BENEFITS

Mobilgard M30 Series oils have industry-leading 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 superior lube/fuel compatibility and separate easily from water.

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

Properties	Potential advantages and 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 RFD (Residual Fuel Detection) 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 superior 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.

TYPICAL CHARACTERISTICS

MOBILGARD M30 SERIES	M330	M430
SAE Grade	30	40
Specific Gravity @ 15°C	0.907	0.907
Flash Point, °C, ASTM D 92	244	250
Pour Point, °C, ASTM D 97	-6	-6
Viscosity, ASTM D 445		
cSt, @ 40°C	112	143
cSt, @ 100°C	12.0	14.0
TBN, mg KOH/g, ASTM D 2896	30	30
Sulphated Ash, wt%, ASTM D 874	3.8	3.8

HEALTH & SAFETY

Based on available information, this product is not expected to produce adverse effects on health when used for the intended application, following the recommendations provided in the Material Safety Data Sheet (MSDS).

The typical property values shown in the table are average figures given as a guide. They do not constitute a guarantee. Values may be modified without notice.