Mobilgard™ M440

Mobil Marine , Japan

Diesel Engine Oils

Product Description

Developed specifically for medium-speed engines

Mobilgard™ M440 is a high performance 40 BN engine oil recommended for use on deep-sea vessels, coastal and river ships operating on heavy fuel oil (HFO).

This product provides:

- Excellent high temperature oxidation
- Outstanding residual fuel compatibility
- Good thermal stability
- Low volatility
- High load carrying properties
- Outstanding corrosion protection.

Corrosion protection

Mobilgard M440's gh alkalinity reserves provide superior protection in neutralising the strong acids resulting from the use of high sulphur fuels, reducing corrosion and in turn maintenance and repair costs.

Unsurpassed engine cleanliness and protection

Mobilgard M440 oil offers excellent BN retention and resistance to viscosity increase, helping to maximise component life and cleaning intervals as well as minimise filter changes and purifier maintenance. It also:

- Helps protect piston under-crowns from deposits caused by raw fuel dilution
- Optimises the life of critical wear surfaces through outstanding anti-wear properties
- Minimises oil consumption thanks to low volatility base stocks

Features and Benefits

Mobilgard M440 oil has outstanding thermal and oxidation stability. It has excellent TBN retention and resistance to viscosity increases over long operating periods. It also promotes a high level of engine cleanliness with protection against wear. Compared to other medium speed engine oils, it has excellent lube/fuel compatibility and separates easily from water.

When used as recommended, Mobilgard M440 oil provides the following benefits

Features	Advantages and Potential 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 M440 oil can be used in most medium-speed trunk piston engine applications. It is 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 oil is the result of an extensive research and development program, incorporating ExxonMobil's patented DAC (Detecting Asphaltene Contamination) Test.

Mobilgard M440 oil is designed to meet the needs of engines operating on heavy fuel. It is 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 this oil provides 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.

Properties and Specifications

Property	
Grade	SAE 40
Flash Point, Cleveland Open Cup, °C, ASTM D92	242
Kinematic Viscosity @ 100 C, mm2/s, ASTM D445	14
Pour Point, °C, ASTM D97	-6
Specific Gravity, 15 C/15 C, ASTM D4052	0.915
Sulfated Ash, wt %, CALCULATED	5
Total Base Number, mgKOH/g, ASTM D2896	40

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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08-2022

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