ExxonMobil
Marine Lubricants

Mobilgard™ 570

Diesel Engine Cylinder Oil

Product Description

Mobilgard™ 570 by ExxonMobil is a premium quality, extra high performance, marine diesel engine cylinder oil. This bold new approach in cylinder lubricant technology provides maximum protection from adhesive and corrosive wear at the higher operating temperatures and pressures of today's modern crosshead engines. The outstanding performance of Mobilgard 570 has been demonstrated at the very elevated peak firing pressures and liner temperatures.

Mobilgard 570 employs additives with substantially outstanding thermal stability and acid-corrosion protection. It has an optimum viscosity of over 20 cSt. at 100ºC and low volatility for excellent lubricant distribution and film retention. Through the use of unique formulation technology, the higher viscosity is attained with little or no use of thermally less stable, deposit-producing bright stock. Unique technology at the 70 TBN alkalinity level in Mobilgard 570 has demonstrated outstanding ring and liner protection and cleanliness under sustained operation with fuel sulphur levels down to 1.5%, but in some cases can be used in lower sulphur applications with the approval of the engine manufacturer.

Features and Benefits

Mobilgard 570 cylinder oil offers the following features and potential benefits:

Features	Advantages and Potential Benefits
Excellent thermal and oxidation stability	Reduced deposits and sludge formation Cleaner engine reduces lay-up time required for overhauls
Exceptional antiwear properties	Reduced liner and ring wear Excellent anti-scuffing control
Outstanding detergency capability	Excellent piston and liner cleanliness increases combustion efficiency can help to extend periods between piston overhauls
High TBN level and retention	Wide fuel sulphur capability Minimises the corrosive effect of high sulphur fuel combustion

Applications

Mobilgard 570 has been developed for marine crosshead engines designed for increased power and fuel efficiency. Such engines exhibit higher temperatures and pressures in the cylinder, which reduce the lubricant's viscosity and increase the loads which it must withstand. Longer piston strokes have greatly increased the amount of surface to be protected and the amount of time the lubricant must withstand the severe cylinder temperatures and corrosive sulphur acids. Mobilgard 570 has also demonstrated excellent performance in earlier engine designs.

To ensure achieving the maximum equipment life possible, particular attention should be paid to the manufacturer's special recommendations regarding the running-in of new rings and liners.

Applications where the sulphur level is below 1.5% require special consideration and should be discussed with your ExxonMobil representative.

Appropriate feed rates should be verified in all cases by through-the-ports inspection of liners for adequate oil film.

Typical Properties

SAE Grade	50
Specific Gravity at 15ºC	0.937
Flash Point, ºC, ASTM D 92	256
Pour Point, ºC, ASTM D 97	-9
Viscosity, ASTM D 445	
cSt, at 40ºC	222
cSt, at 100ºC	20
Viscosity Index, ASTM D 2270	104
TBN, mg KOH/g, ASTM D 2896	70

Health and 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). MSDSs are available upon request through your sales contract office, or via the Internet on http://www.exxonmobil.com. This product should not be used for purposes other than its intended use. If disposing of used product, take care to protect the environment.

11-2012

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