



Mobilgard L540

Diesel Engine Cylinder Oil

Product Description

Mobilgard L540 by ExxonMobil is a superior quality, extra high performance marine diesel engine cylinder oil. This unique formulation has been specifically developed for engines running in a low sulphur heavy fuel oil (HFO) environment. This cylinder lubricant provides maximum protection from adhesive and corrosive wear at the higher operating temperatures and pressures of today's modern crosshead engines, for maximum reliability. It employs additives with greater thermal stability and superior acid-corrosion protection. It has an optimum viscosity of over 20 cSt. at 100°C and low volatility for best 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. Advanced technology at the 40 TBN alkalinity level in Mobilgard L540 has demonstrated excellent ring and liner wear protection and cleanliness under sustained operation with fuel sulphur levels from less than 0.3% up to 1.5%.

Features and Benefits

Mobilgard L540 cylinder oil offers the following features and potential benefits:

Features	Advantages and Potential Benefits
Excellent thermal and oxidation stability	Reduced deposits and sludge formation
	Extended oil life
	Cleaner engine reduces lay-up time required for overhauls
Exceptional antiwear properties	Reduced liner and ring wear
	Excellent anti-scaffing control
Outstanding detergency capability	Superior piston and liner cleanliness increases combustion efficiency and extends periods between piston overhauls
High Viscosity Index and stable basestocks	Reduced cylinder oil consumption

Applications

Mobilgard L540 has been developed for marine crosshead engines with 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 L540 has also demonstrated superior 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.

Mobilgard L540 was specially formulated for use in applications with fuel sulphur levels ranging from less than 0.3% up to 1.5%. Applications where the sulphur level is above 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 to ensure adequate oil film.

Typical Properties

SAE Grade	50
Specific Gravity at 15°C	0.917
Flash Point, °C, ASTM D 92	264

SAE Grade	50
Pour Point, °C, ASTM D 97	-6
Viscosity, ASTM D 445	
cSt, at 40°C	236
cSt, at 100°C	21
Viscosity Index, ASTM D 2270	105
TBN, mg KOH/g, ASTM D 2896	40

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.

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ExxonMobil Marine Limited
Ermyrn Way
Leatherhead, Surrey
United Kingdom KT22 8UX

<http://www.exxonmobil.com>

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