

ExxonMobil SAE 50 Mobilgard 570

Category : Fluid , Lubricant

Material Notes:

Mobilgard 570 by ExxonMobil is a superior 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 highest peak firing pressures and liner temperatures. Mobilgard 570 employs additives with substantially 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. Unique technology at the 70 TBN alkalinity level in Mobilgard 570 has demonstrated superior 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. 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 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. 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.

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Physical Properties	Metric	English	Comments
Specific Gravity	0.937 g/cc	0.937 g/cc	15°C
Viscosity Measurement	104	104	Index; ASTM D2270
Kinematic Viscosity at 40°C (104°F)	229 cSt	229 cSt	ASTM D445
Kinematic Viscosity at 100°C (212°F)	21 cSt	21 cSt	ASTM D445

Thermal Properties	Metric	English	Comments
Pour Point	-9.00 °C	15.8 °F	ASTM D97
Flash Point	256 °C	493 °F	ASTM D92

Chemical Properties	Metric	English	Comments
Total Base Number	70	70	mgKOH/g; ASTM D2896

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