



Mobilgard 1 SHC

ExxonMobil Marine , Peru

Synthetic Diesel Engine Oil

Product Description

Mobilgard 1 SHC by ExxonMobil is a supreme performance, synthetic diesel engine oil specifically formulated to address the needs of high power, distillate fueled engines. It provides unsurpassed lubrication including long drain capability and extended engine life for today's marine diesel engines operating in severe applicatio

The unsurpassed performance capabilities of Mobilgard 1 SHC are the result of extensive cooperative development work with major equipment builders combine the latest engine lubrication engineering. It is especially effective in extreme temperature applications. A true SAE 40 grade lubricant, on very hot engine parts, it pr stronger lubrication film strength than most SAE 50 engine oils. At low temperatures, it flows like an SAE 20W product and thus provides outstanding start-up rel and wear protection at extreme low temperatures as low as -54°C.

Revolutionary load carrying additives also make Mobilgard 1 SHC an outstanding wide temperature range gear lubricant.

Features and Benefits

Modern high performance, low emission, diesel engines in severe-service applications significantly increase the demands on engine lubricants. Current engine d are tighter, reducing oil consumption and resulting in less fresh oil make-up to replenish depleted additives. Top piston rings may be located higher bringing the closer to the combustion chamber where temperatures increase thermal stress on the lubricant. Higher fuel injector pressure and retarded timing improve cor exhaust emissions, but also increase engine temperatures and increase soot loads in engines operating with exhaust gas re-circulation. Mobilgard 1 SHC can p satisfactory lubrication at temperatures significantly higher than the upper limit for other extra high performance diesel engine oils. Its inherent viscosity is SAE 40 : very hot engine components it resists oil film breakdown better than conventional SAE 50 lubricants. The synthetic chemistry and wax free nature also provid temperature pumpability in comparison with a conventional SAE 20W lubricant. Mobilgard 1SHC is fully compatible with conventional oils.

Mobilgard 1 SHC has all the advantages of an SAE 40 weight oil without the higher oil consumption inherent in multigrade oils that use very light base stocks to a low temperature performance. Because of the unique molecular structure of the advanced base stocks used, combined with a highly responsive additive s Mobilgard 1 SHC is not as volatile in the high temperature ring-belt area of the pistons in turbocharged engines. It reduces oil consumption and wear, while improv economy.

Mobilgard 1 SHC is also environmentally friendly in that it can significantly extend oil drain intervals beyond conventional oils which reduces waste oil disposal. In ac the formulation is designed without the use of zinc and with low chlorine levels well below the most stringent regulations in effect today.

Key features and potential benefits include:

Features	Advantages and Potential Benefits
Exceptional thermal and oxidation stability	Minimises high temperature deposit formation, bore polish, varnish and sludge build-up Extends oil drain and service periods
Excellent antiwear properties	Extends the life of critical engine components
Enhanced frictional properties	Maintains effective oil film under severe operation and improves fuel economy
Excellent rust and corrosion protection	Protects critical engine components and bearing metals
Outstanding high and low temperature performance	Wide temperature and operating application range Quick start-up and immediate oil circulation at low ambient temps
Excellent water separation and anti-foam performance	Maintains film strength for reliable performance under severe operating conditions
Low volatility	Reduced oil consumption

Applications

Mobilgard 1 SHC is recommended for use as a crankcase lubricant in medium and high speed diesel engines in severe marine service. It is especially suited to the ne high power concentration engines where thermal stress and loading on the lubricant are severe, as well as for applications involving low-temperature and /or fr start-up, rapid loading following rapid start-up, and abrupt shutdown after high speed operations.

Specific applications include:

- Military patrol vessels, high speed ferry/passenger vessels, racing boats and luxury yachts
- Life and rescue boat engines, emergency generators, auxiliary engines
- Marine gearing applications where FZG Level 12 is required
- Fully compatible with conventional mineral oils and mineral oil systems
- Can be used in confidence in engines containing silver bearing components due to non-zinc formulation

Specifications and Approvals

<b>This product has the following approvals:</b>
MTU Oil Category 2
MAN Energy Solutions Augsburg (Heritage MAN B&W) 4 Stroke medium speed engines for Distillate operation
Progress Rail Worthy of Field Test (recognition letter on file)
Wartsila 4-Stroke Medium Speed Engines for Distillate- and Dual-Fuel operations

<b>This product is recommended for use in applications requiring:</b>
API CF
API CF-2

Properties and Specifications

Property	
Grade	SAE 40
Ash, Sulfated, wt%, ASTM D874	1.6
Chlorine, ppm, ASTM D6443	150
Density @ 15 C, kg/l, ASTM D4052	0.872
Flash Point, Cleveland Open Cup, °C, ASTM D92	250
Kinematic Viscosity @ 100 C, mm2/s, ASTM D445	14.5
Kinematic Viscosity @ 40 C, mm2/s, ASTM D445	109
Pour Point, °C, ASTM D97	-54
Total Base Number, mgKOH/g, ASTM D2896	15
Viscosity Index, ASTM D2270	136

**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.as>  
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04-2024

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