



Mobilgard HSD

Product Description

Mobilgard HSD by Mobil is an extra high performance, multi-grade engine oil specifically formulated for severe service high-speed diesel engines in marine applications. Its advanced chemistry provides outstanding performance in both modern, demanding low-emission diesel engines and older diesel engines operating on low or high sulphur distillate fuel. Mobilgard HSD is approved or recommended by all the major marine high-speed diesel engine builders.

Features and Benefits

Mobilgard HSD combines a blend of high quality base stocks with a superior balanced additive system to provide exceptional control of oil thickening due to soot build-up and high temperatures, as well as outstanding resistance to oxidation, corrosion, and high temperature varnish deposits.

When used as recommended, Mobilgard HSD diesel engine oil provides the following features and potential benefits:

Features	Advantages and Potential Benefits
Outstanding thermal and oxidation stability	Reduces formation of deposits and sludge build-up
	Keeps engines clean and operating smoothly
Excellent wear protection	Extended life of critical engine components
High Viscosity Index	Stable oil film at all operating temperatures
	Reduced oil consumption
Increased high temp/high shear performance	Reduced engine scuffing, bore polishing and ring sticking
Outstanding TBN retention	Protects engine parts from corrosive wear and deposits
Excellent water tolerance and separation capability	Maintains effective lubrication and film-strength in the presence of water
Excellent low temperature properties	Improved oil pumpability/circulation at start-up
	Start-up wear protection especially for valve train area

Applications

Mobilgard HSD is designed to provide outstanding performance in the most severe service marine applications of modern high-speed diesel engines, such as Caterpillar 3500 Series and smaller bore, Cummins, Volvo, Daihatsu, Yanmar, and others.

Specifications and Approvals

Mobilgard HSD 15W-40 meets the requirements of the following specifications:

API CI-4/CH-4/ /SL/SJ	X
ACEA E7	X
Caterpillar ECF-2	X

Mobilgard HSD 15W-40 has the following builder approvals:

MB-Approval 228.3	X
Volvo VDS-3	X
MAN M3275	X

Mobilgard HSD 15W-40 is suitable for use in applications requiring:

CG-4/CF-4/CF	X
Cummins CES 20078/20077/20076/20072/20071	X

Typical Properties

SAE Grade	15W-40
Specific Gravity at 15°C	0.881
Flash Point, °C, ASTM D 92	227
Pour Point, °C, ASTM D 97	-33
Viscosity, ASTM D 445	
cSt, at 40°C	105
cSt, at 100°C	14.2
Viscosity Index, ASTM D 2270	138
TBN, mg KOH/g, ASTM D 2896	10
Sulphated Ash, wt%, ASTM D 874	1.1

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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Esso Petroleum Company limited
ExxonMobil House, Ermyn Way, Leatherhead, Surrey KT22 8UX

44 (0)1372 222000
<http://www.exxonmobil.com>

Typical Properties are typical of those obtained with normal production tolerance and do not constitute a specification. Variations that do not affect product performance are to be expected during normal manufacture and at different blending locations. The information contained herein is subject to change without notice. All products may not be available locally. For more information, contact your local ExxonMobil contact or visit www.exxonmobil.com. ExxonMobil is comprised of numerous affiliates and subsidiaries, many with names that include Esso, Mobil, or ExxonMobil. Nothing in this document is intended to override or supersede the corporate separateness of local entities. Responsibility for local action and accountability remains with the local ExxonMobil-affiliate entities.

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