



## Mobilgard HSD 15W-40

ExxonMobil Marine, Italy

### Product Description

Mobilgard HSD 15W-40 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 15W-40 is approved or recommended by all the major marine high-speed diesel engine builders.

### Features and Benefits

Mobilgard HSD 15W-40 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 15W-40 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 15W-40 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

<b>Mobilgard HSD 15W-40 meets the requirements of the following specifications:</b>	
API CI-4/CH-4/ /SL/SJ	X
ACEA E7	X
Caterpillar ECF-2	X
Cummins CES 20077/20076 X	X

<b>Mobilgard HSD 15W-40 has the following builder approvals:</b>	
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<b>Mobilgard HSD 15W-40 has the following builder approvals:</b>	
MB-Approval 228.3	X
Volvo VDS-3	

<b>Mobilgard HSD 15W-40 is suitable for use in applications requiring:</b>	
CG-4/CF-4/CF	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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