



## MOBILGARD™ HSD 15W-40 CI-4

ExxonMobil Marine , Colombia

High Performance Diesel Engine Oils

### Product Description

Mobilgard HSD CI-4 series by Mobil are extra high performance, multi-grade engine oils specifically formulated for severe service high-speed diesel engines in marine applications. The advanced chemistry of these products 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 CI-4 series is approved or recommended by the major marine high-speed diesel engine builders.

### Features and Benefits

Mobilgard HSD CI-4 series 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 CI-4 series diesel engine oils provide the following features and potential benefits:

Features	Advantages and Potential Benefits
High 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 CI-4 series 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) as well as of older diesel engines operating on low or high sulphur distillate fuel.

### Specifications and Approvals

**This product has the following approvals:**

VOLVO VDS-3

**This product has the following approvals:**

MTU Oil Category 2

**This product is recommended for use in applications requiring:**

API CF

API CF-4

API CG-4

API SH

Cummins CES 20071

Cummins CES 20072

MAN M 3275-1

**This product meets or exceeds the requirements of:**

API CH-4

API CI-4

API SJ

API SL

ACEA E7

Caterpillar ECF-2

Cummins CES 20078

Cummins CES 20076

CUMMINS CES 20077

**Properties and Specifications**

Property	
Grade	SAE 15W-40
Density @ 15 C, g/ml, ASTM D4052	0.88
Viscosity Index, ASTM D2270	137
Kinematic Viscosity @ 100 C, mm <sup>2</sup> /s, ASTM D445	14.4
Kinematic Viscosity @ 40 C, mm <sup>2</sup> /s, ASTM D445	105.6

Property	
Flash Point, Cleveland Open Cup, °C, ASTM D92	225
Ash, Sulfated, mass%, ASTM D874	1.3
Total Base Number, mgKOH/g, ASTM D2896	11.5
Pour Point, °C, ASTM D97	-33

### 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.aspx>

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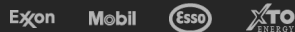
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