



## Mobilgard™ HSD 20W-50

ExxonMobil Marine , Malaysia

### Product Description

Mobilgard HSD 20W-50 is a high-speed diesel (HSD) lubricant for a range of marine applications. Mobilgard HSD 20W-50 is a high performance, heavy duty engine oil that provides proven protection to diesel engines operating in severe applications. It is recommended by ExxonMobil for use in a wide range of heavy duty applications and marine operating environments.

### Features and Benefits

The key benefits include:

| Features                         | Advantages and Potential Benefits      |
|----------------------------------|--|
| Thermal and oxidation stability  | Controls sludge build-up and deposits  |
| Excellent detergency/dispersancy | Cleaner engines and longer engine life |
| Stay-in-grade shear stability    | Helps reduce oil consumption and wear  |

### Applications

Recommended by ExxonMobil for use in:

- Diesel-powered equipment from leading engine manufacturers
- Older and reconditioned marine engines
- Engines that meet API CF-4/CF/SG/SF

### Specifications and Approvals

| This product is recommended for use in applications requiring: |
|--|
| API CF-4   |
| API CF   |

### Properties and Specifications

| Property   |            |
|--|------------|
| Grade  | SAE 20W-50 |
| Kinematic Viscosity @ 40 C, mm <sup>2</sup> /s, ASTM D445  | 148.9      |
| Kinematic Viscosity @ 100 C, mm <sup>2</sup> /s, ASTM D445 | 17.6       |
| Ash, Sulfated, mass%, ASTM D874                            | 1.0        |

| Property                               |       |
|--|-------|
| Total Base Number, mgKOH/g, ASTM D2896 | 8.4   |
| Pour Point, °C, ASTM D97               | -30   |
| Flash Point, °C, ASTM D92              | 220   |
| Density @ 15 C, g/cm3, ASTM D4052      | 0.880 |

### 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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