

# Product Data Sheet

## Mobilgard 450 High-Performance, Zinc-Free Marine Diesel Engine Lubricant

### Product Description

Mobilgard 450 engine oil is a zinc-free lubricant formulated with high-quality base stocks which provide low consumption characteristics, high-temperature oxidation resistance, and thermal stability. These base stocks are combined with specially selected stable additives resulting in an engine oil with well-balanced properties.

The detergent/dispersant qualities of Mobilgard 450 increases filter life and engine cleanliness. Its sustained high alkalinity provides excellent corrosion protection when using fuels containing up to two percent sulphur, even though metals such as steel, copper, silver, and bronze are present. Mobilgard 450 has outstanding lubrication properties and provides the necessary protection against corrosion.

Mobilgard 450 exhibits superior quality in reduced wear in piston rings and cylinder liners. It possesses exceptionally good water separating ability.

### Benefits

Mobilgard 450 offers these benefits and advantages:

- Outstanding protection against sludge in intermittent marine service
- Lower oil consumption
- Excellent oxidation stability and oil life
- High load carrying capability
- Effective varnish and carbon control
- Outstanding protection of silver bearings
- Excellent water tolerance and separation
- Lower maintenance costs

### Application

Mobilgard 450 engine oil has been specifically formulated to meet the requirements of heavily loaded diesel engines manufactured by EMD and used in marine applications. It is suitable for other marine diesel engines of the highest horsepower, or highest brake mean effective pressure (BMEP) using distillate fuels with a sulphur content of up to two percent. It will lubricate such engines in drilling rigs and stationary power generation service as well. Mobilgard 450 has proven its performance in extensive service in diesel engines manufactured by Alco, Caterpillar, Cummins, Detroit Diesel, Fairbanks Morse, General Electric, and SWD.

Mobilgard 450 engine oil meets the requirements of an SAE 40 grade marine diesel engine oil and is suitable wherever API CD performance is specified. It has quality recognition by EMD, excellent DD 6V92 TA test results, and is rated an LMOA Generation 4 lubricant.

## Health and Safety

Based on available toxicological information, it has been determined that this product poses no significant health risk when used and handled properly.

Details on handling, as well as health and safety information, can be found in the Material Safety Data Bulletin which can be obtained through Mobil Oil Company Ltd., by telephoning 01372 22 2000.

Typical physical characteristics are given in the table. These are intended as a guide to industry and are not necessarily manufacturing or marketing specifications.

## Typical Characteristics

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	<b>Mobilgard 450</b>
SAE Grade	40
Viscosity, cSt at 40°C	140
Viscosity, cSt at 100°C	14.5
Viscosity Index	98
Gravity, API	26.8
Specific Gravity	0.894
Pour Point, °C	-7
Flash Point, °C	260
Total Base Number (ASTM D 2898)	13.5
Sulphated Ash, % wt.	1.65
Zinc, ppm, max.	10

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Due to continual product research and development, the information contained herein is subject to change without notice.

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