

# Mobilgard™ M40 Series

Engine oils for severe, residual-fuelled, medium-speed diesel applications



Energy lives here™

## Product features

Mobilgard™ M40 Series 40 BN trunk piston engine oils are formulated using a high-performance detergent additive technology, providing outstanding residual fuel compatibility characteristics for excellent engine cleanliness. They can offer:

- Excellent high-temperature oxidation
- Good thermal stability
- Low volatility
- High load carrying properties
- Outstanding corrosion protection

These oils **promote engine cleanliness** — especially in crankcase, camshaft areas, ring belt and piston under-crowns.

## Potential benefits

Mobilgard M40 Series oils help:

- 1 Protect piston under-crowns from deposits caused by raw fuel dilution
- 2 Extend the life of critical wear surfaces
- 3 Optimise lubricant consumption
- 4 Extend cleaning intervals and optimise filter changes and purifier maintenance

## Corrosion protection

Mobilgard M40 Series trunk piston engine oils are especially beneficial in engines having low crankcase oil consumption or operating with low cylinder liner temperatures. Their relatively high alkalinity reserves neutralise the strong acids resulting from the use of high-sulphur fuels, potentially reducing ring, cylinder and bearing corrosion.

Recommended applications	
Deep sea vessel medium-speed main and auxiliary engines	✓
Cruise ship main engines	✓
Coastal ships operating on heavy fuel oil (HFO)	✓

# Mobilgard™ M40 Series

## Excellent engine cleanliness

Mobilgard™ M40 Series oils help engines stay clean by cutting fuel- and combustion-related corrosion and deposit buildup. Their BN retention and resistance to viscosity increase ensure the oil reaches critical components. This helps to maximise component life and cleaning intervals while minimising filter changes and purifier maintenance.



## Protection against engine wear

Mobilgard M40 Series oils' antiwear properties help extend the life of critical wear surfaces, and exceptional rust and corrosion properties help protect from water and acidic corrosion to minimise maintenance and repair costs. Low volatility base stocks allow for minimised lubricant consumption, which further adds to potential savings.

Mobilgard M40 Series oils provide outstanding residual fuel compatibility characteristics, helping to inhibit sludge formation, leading to **long oil life and excellent engine cleanliness.**

## Typical properties

Mobilgard M40 Series	M440
SAE Grade	40
Specific Gravity at 15°C	0.915
Flash Point, °C, ASTM D 92	242
Pour Point, °C, ASTM D 97	-6
Viscosity, ASTM D 445 cSt, at 100°C	14.0
TBN, mg KOH/g, ASTM D 2896	40
Sulphated Ash, wt%, ASTM D 874	5.0