

# CEPSA MAR SHPD 15W40

## Description



CEPSA MAR SHPD is an oil for high-performance engines using heavy diesel and was developed for optimum protection and performance in both naturally-aspirated and turbo-charged diesel engines, which operate under severe conditions at high speeds and with high mean effective pressures.

Recommended for engines that meet Euro III and previous emissions standards, which operate with gas oil containing up to 0.5% sulfur and not equipped with gas after-treatment systems.

### Product performance

- The extra anti-wear additives provide CEPSA MAR SHPD with a higher level of anti-wear protection than other equivalent oils on the market.
- Formulated with highly-refined base oils, which provide it with a high level of resistance to oxidation and degradation, in addition to providing stable viscosity at high temperatures and low volatility reducing oil consumption.
- Thanks to its special balance of detergent and dispersant additives, it eliminates deposits on piston rings and valves, preventing their accumulation and the appearance of wear and oil leaks.
- Excellent demulsibility and resistance to corrosion and rust.
- Contains dispersant additives, which enables the useful life of oil filters to be extended and allows them to remove abrasive materials that are present in the oil, reducing engine wear.

### Applications

- CEPSA MAR SHPD oil is mainly recommended for use in heavy diesel engines operating under severe service conditions on merchant ships, auxiliary port ships, fishing boats and leisure boats.
- It can also be used in auxiliary and emergency generator sets.

## Specifications

· API CH-4	· ACEA E2	· MAN 271
· VOLVO VDS	· MTU Type 1	· CATERPILLAR ECF-1
· MACK EO-M	· MB 228.1	· CUMMINS CES 20071/20076

## Typical Characteristics

SPECIFICATIONS	ASTM STANDARD	CEPSA MAR SHPD
<b>SAE GRADE</b>	---	<b>15W-40</b>
Density 15°C, kg/l	D-4052	0.8831
Flash Point O/C °C	D-92	>220
Freezing Point °C	D-97	-30
Viscosity cSt at 40 °C	D-445	105
Viscosity cSt at 100 °C	D-445	14.40
Viscosity Index	D-2270	141
Base Number, mg KOH/g	D-2896	9.0
Sulfated Ash % p	D-874	1.18

## Health & Safety and Environment

In accordance with current legislation, all health, safety and environmental information for this product is provided on the Material Safety Data Sheet, which gives details of potential hazards, handling precautions and first aid measures, together with environmental data.

The typical characteristic values that are shown in the table are average values, provided for information purposes only, and do not constitute a guarantee. These values may be changed without prior notice.