



## Gulfmar Supreme Premium Quality Marine Engine Oil

### Product Description

**Gulfmar Supreme** is premium quality marine engine oil developed to meet the performance requirements of modern turbocharged and naturally aspirated marine diesel engines operating on distillate diesel fuel under severe conditions. It is blended from highly refined base stocks and new generation additives to provide excellent detergency, dispersancy and antiwear protection with effective acid neutralization capability. It offers exceptional protection and extended life to low emission diesel engines including those fitted with Exhaust Gas Recirculation (EGR) systems. The product meets the requirements of most of the medium and high speed marine diesel engines.

### Features & Benefits

- Excellent thermo-oxidative stability reduces deposits, sludge and oil thickening
- Excellent soot handling capability protects against oil thickening and wear
- High shear stability ensures viscosity control at elevated temperatures and reduces oil consumption and wear
- Advanced detergency reduces deposits, keeps engine clean and provides added protection against bore polishing
- Excellent TBN retention capacity protects engine against corrosive wear by neutralising the acids

### Applications

- Modern turbocharged and naturally aspirated 4-stroke medium and high speed marine diesel engines requiring oils meeting the specifications given in the table below
- Rescue boats, lifeboats, fishing trawlers and coastal vessels
- Turbocharged and naturally aspirated diesel engines used in on-highway and off-highway applications (mining, construction, agriculture) including those fitted with EGR systems and meeting US 2004 emission norms introduced in 2002 requiring oils meeting specifications given below
- Transmissions requiring oil meeting the performance levels given below
- General ship applications requiring oils meeting the below mentioned specifications.

### Specifications, Approvals & Typical Properties

Meets the following Specifications		10W-40	15W-40
API CI-4		X	X
ACEA E7, Global DHD-1		X	X
Daimler MB 228.3, Cummins CES 20077/ 78, Cat ECF-1a		X	X
Volvo VDS-3, Mack EO-N, Renault VI RLD-2, MAN M 3275, MTU Oil Category 2		X	X
Typical Properties			
Test Parameters	ASTM Method	Typical Values	
Viscosity @ 100 °C, cSt	D 445	14.8	14.50
Viscosity Index	D 2270	159	140
Flash Point, °C	D 92	222	226
Pour Point, °C	D 97	-33	-27
TBN, mg KOH/g	D 2896	10.5	11.29
Density @ 15°C, Kg/l	D 1298	0.875	0.89
Sulphated Ash, wt%	D 874	1.5	1.45

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Properties mentioned above are typical only and minor variations, which do not affect the product performances, are to be expected in normal manufacturing. The above information is based on past history of the grade only and must not be construed as a guarantee of performance. Follow equipment manufacturer's recommendations for performance level and viscosity grade. The Material Safety Data Sheet for this product is available from your nearest Gulf Distributor.

Gulf Oil International

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