



## Gulfmar MX Marine Engine Oil

### Product Description

**Gulfmar MX** is marine engine oil developed to meet the performance requirements of modern turbocharged and naturally aspirated marine diesel engines operating on distillate diesel fuel. It is blended from highly refined base stocks and proven performance additives to provide good detergency, dispersancy and antiwear protection with effective acid neutralization capability. The product meets the requirements of most of the medium and high speed marine diesel engines.

### Features & Benefits

- High oxidation stability reduces sludge build up & viscosity increase to facilitate long drain intervals
- Improved detergency reduces deposits, keeps engine clean and protects against bore polishing
- Improved dispersancy ensures soot dispersion to control oil thickening and wear
- Good TBN retention ensures effective acid neutralisation
- Effective antiwear properties protect critical engine components to extend engine life and reduce maintenance costs

### Applications

- 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.
- Heavy duty diesel engines used in mining, construction, agriculture and other off-highway applications
- Transmissions requiring oil meeting the performance levels given below, more specifically Allison C-4 specifications.
- General ship applications requiring oils meeting the below mentioned specifications

### Specifications & Typical Properties

Meets the following Specifications		15W-40
API CG-4, SL, SJ		
ACEA E3, E2		
DaimlerChrysler MB 228.3, Volvo VDS-2		
MTU Oil Category 2, MAN M 3275		
Allison C-4		
Typical Properties		
Test Parameters	ASTM Method	Typical Values
Viscosity at 100 °C, cSt	D 445	14.60
Viscosity Index	D 2270	136
Flash Point, °C	D 92	225
Pour Point, °C	D 97	-30
TBN, mg KOH/g	D 2896	10.49
Density @ 15°C, Kg/l	D 1298	0.895
Sulphated Ash, wt%	D 874	1.46

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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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