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# Gulfmar DPO Plus 415

*Medium Speed Marine Diesel Engine Oil*

## Product Description:

**Gulfmar DPO Plus 415** is a premium quality trunk piston diesel engine oil designed for use in modern medium speed diesel engines operating on distillate fuels. The advanced additive technology used in **Gulfmar DPO Plus 415** provides excellent engine cleanliness & protection under severe operating conditions and assists in controlling oil consumption in modern engines, where liner-lacquering is a potential problem and meets the performance requirements of API CF.

**Gulfmar DPO Plus 415** has excellent detergency ensuring piston and crankcase cleanliness which helps in maintaining the efficiency of the engine. Superior liner lacquer control helps in maintaining oil consumption at its normal level and improved anti-wear property protects against engine wear and reduces maintenance costs. Exceptional thermo-oxidative stability retards oil degradation and extends its service life. Reserve TBN ensures protection of engine parts against corrosive combustion products and superior demulsibility characteristics ensures water separation leading to trouble free operation. Special rust & corrosion inhibitors prevent corrosion of engine parts in severe salt water environment.

**Gulfmar DPO Plus 415** is recommended for modern medium speed engines used in marine, power generation and industrial applications operating on distillate fuels having sulphur contents up to 1%. Specially recommended for older engines where liner-lacquer is not a potential problem. Follow manufacturers' recommendation for selection of suitable TBN level/SAE viscosity grade. Also recommended for general lubrication of shipboard equipment where specialised lubricants are not required or use of API CF quality oils are adequate.

## Meets the specifications of: API CF

<u>Properties:</u>	<u>Test Methods:</u>	<u>Typical Values:</u>
SAE Viscosity Grade	SAE J300	40
Density @ 15°C	ASTM D4052	904 kg/m <sup>3</sup>
Kinematic Viscosity @ 40°C	ASTM D445	145 mm <sup>2</sup> /s (cSt)
Kinematic Viscosity @ 100°C	ASTM D445	15.5 mm <sup>2</sup> /s (cSt)
Viscosity Index	ASTM D2270	>90
Flash Point	ASTM D92	>220°C
Pour Point	ASTM D97	<-18°C
Total Base Number	ASTM D2896	15 mgKOH/g
Sulphated Ash	ASTM D874	1.9 wt %

Product Code: 1837	Date Issued: 18/07/2012	Date Superseded: 02/01/2012	Revision nr: 04
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