petrogulf® marine

Product Data Sheet

PETROGULF MARINE TPEO

Product Grade I 3030 I 3040 I 3050 I 3055 I 4030 I 4040 I 4050 I 4055 I 5030 I 5040 I 5050

PRODUCT DESCRIPTION

Petrogulf Marine TPEO is a trunk piston engine oil designed for use in medium-speed diesel engines operating on residual fuels in marine, power generation, and industrial applications. Its advanced additive technology ensures excellent engine cleanliness and wear protection across a wide range of operating conditions. This oil is available in SAE 30, SAE 40 and SAE 50 viscosity grades, with a BN (Base Number) ranging from 30 to 55.

FEATURES & BENEFITS

- Excellent detergency and dispersancy reduces build-up of soot & black sludge and keeps the engine cleaner
- Acidic by-products are effectively neutralized and the engine is protected from corrosive wear
- Superior demulsibility promotes water separation, ensuring trouble-free operation
- Strong anti-wear technology that provides protection against piston & liner wear and good wear performance leading to reduction in maintenance costs
- Improved thermo-oxidative stability retards oil degradation facilitating extended oil life
- High water tolerance with enhanced water separation and base number retention

APPLICATIONS

- Recommended for medium speed diesel engines in marine, power generation and industrial applications operating on residual fuels
- Petrogulf Marine TPEO 3055 & 4055 are formulated for engines operating on high-sulphur residual fuels. This is recommended for those engines where the frequency of topping-up/replenishment is less frequent
- Petrogulf Marine TPEO 3040 & 4040 are suitable for engines operating on residual fuels having sulphur content up to 3.5%
- Recommended for general lubrication of shipboard equipment where specialized lubricants are not required

OEM REQUIREMENTS

- API CF
- FZG 11th stage pass
- WÄRTSILÄ 4-stroke engines
- MAN B&W 4-stroke engines
- CATERPILLAR MAK 4-stroke medium speed engines
- NIGATA
- YANMAR
- DAIHATSU

TYPICAL CHARACTERISTICS

PROPERTIES	TYPICAL VALUES					
Product Grade	**3030**	**3040**	**3050**	**4030**	**4040**	**4050**
Kinematic Viscosity @ 40°C, cSt	99.4	99.3	99.4	149	149	149
Kinematic Viscosity @ 100°C, cSt	11.0	11.0	11.0	14.5	14.5	14.5
Viscosity Index	95	95	95	95	95	95
Density @ 15°C, Kg/L	0.899	0.906	0.916	0.910	0.917	0.918
Pour Point, °C	-18	-18	-15	-15	-15	-15
Flash Point, °C	230	230	230	240	240	240
Foaming Seq I, II, III	50/0, 30/0, 50/0	50/0, 30/0, 50/0	50/0, 30/0, 50/0	50/0, 30/0, 50/0	50/0, 30/0, 50/0	50/0, 30/0, 50/0
TBN (mg KOH/gm)	30.0	40.0	50.0	30.0	40.0	50.0
Product Code	32800080001	32800090001	32800100001	32800080002	32800090002	32800100002

***These characteristics are typical of current production. While future production will conform to Petrogulf's specification, variations in these characteristics may occur.*

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TYPICAL CHARACTERISTICS

PROPERTIES	TYPICAL VALUES				
Product Grade	**3055**	**4055**	**5030**	**5040**	**5050**
Kinematic Viscosity @ 40°C, cSt	99.2	149	224	225	225
Kinematic Viscosity @ 100°C, cSt	11.0	14.5	19.0	19.0	19.0
Viscosity Index	95	95	95	95	95
Density @ 15°C, Kg/L	0.921	0.925	0.920	0.9230	0.9300
Pour Point, °C	-15	-12	-12	-12	-12
Flash Point, °C	230	240	240	240	240
Foaming Seq I, II, III	50/0, 30/0, 50/0	50/0, 30/0, 50/0	50/0, 30/0, 50/0	50/0, 30/0, 50/0	50/0, 30/0, 50/0
TBN (mg KOH/gm)	55.0	55.0	30.0	40.0	50.0
Product Code	32800110001	32800110002	32800080003	32800090003	32800100003

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HANDLING, HEALTH AND SAFETY

- In normal conditions of use, this lubricant presents no particular toxic hazard. All lubricants, of any kind should be handled with great care, particularly avoiding any contact with skin.
- Prevent any splashing, and keep away from combustible materials. Store under cover and away from any risk of pollution. Dispose off the used oil correctly; don't pour down drains, into watercourses or the soil.
- Petrogulf will not accept liability if the product is used other than in manner or with the precautions, or for the purpose specified. Before the product is used other than directed advice should be obtained from Petrogulf local office.

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