

Marine TPEO Series

High and Medium Speed Marine Diesel Engine Oils

PRODUCT DESCRIPTION

Marine TPEO Series, is marine diesel engine oil that is a combination of new additive technology with high quality base oils for high and medium speed Trunk piston type marine.

APPLICATIONS

- It is suitable for use in high and medium-speed Trunk piston type marine diesel engines.
- It is recommended that use of products between 12 and 20 TBN with fuels with low sulfur content (less than 1%)
- It is recommended that use of products between 20 and 40 TBN with fuels with high sulfur content (more than 1%)

CHARACTERISTICS

- Its high thermal and oxidation stability provides extended oil change interval.
- Its detergent and dispersant additives control the formation of soot and deposit, so keeps engine parts clean, and reduces maintenance costs.
- Its high TBN reserve neutralizes acids forming during the combustion, thus providing very good protection against corrosion, wear, and deposit formation.
- Its antiwear additives provide very good bearing wear protection even under heavy loads.

PERFORMANCES

- API CF

TYPICAL PROPERTIES

SAE	30	30/12	30/15	30/20	30/30
Density@15°C, g/ml	ASTM D 4052	0,894	0,917	0,928	0,895
Viscosity@ 40°C, mm²/s	ASTM D 445	102	102	102	102
Viscosity@100°C, mm²/s	ASTM D 445	11,5	11,5	11,5	11,5
Viscosity Index	ASTM D 2270	95	95	95	95
Flash Point, °C	ASTM D 92	240	245	250	255
Pour Point, °C	ASTM D 97	-9	-9	-9	-9
TBN, mg KOH/g	ASTM D 2896	12	15	20	30

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SAE	40	40/12	40/15	40/20	40/30	40/40
Density@15°C, g/ml	ASTM D 4052	0,896	0,917	0,928	0,898	0,901
Viscosity@ 40°C, mm²/s	ASTM D 445	167	167	167	167	167
Viscosity@100°C, mm²/s	ASTM D 445	15,9	15,9	15,9	15,9	15,9
Viscosity Index	ASTM D 2270	95	95	95	95	95
Flash Point, °C	ASTM D 92	240	245	250	245	250
Pour Point, °C	ASTM D 97	-9	-9	-9	-9	-12
TBN, mg KOH/g	ASTM D 2896	12	15	20	30	40

HEALTH AND SAFETY RECOMMENDATIONS

Waste oils must not be discharged into underground or surface water sources, sewage systems or garbage cans. Prolonged or repeated contact with used oils may cause skin diseases. Therefore sterilized gloves should always be used. If part of the skin comes into contact with waste oil, that part should be immediately washed with plenty of soap and water. In case of skin irritation or redness caused by contact, seek advice of your doctor immediately. For more information contact Material Safety Data Sheet (MSDS).

The vehicle and equipment manufacturers specifications and relevant international standards were taken into consideration while preparing the content of this Technical Data Sheet. The expressions in the content of this Technical Data Sheet can not be considered as guarantee commitment or similar way in terms of product characteristics and product use in any applications.

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