

Hanasaki Marine TPEO Series

Premium Quality Marine Trunk Piston Engine Oils

Product Description

Hanasaki Marine TPEO Series of lubricants are designed for use in medium speed diesel engines operating on residual fuels in marine, power generation and industrial applications. These lubricants are specially designed for modern medium speed 4-stroke marine engines running on heavy fuel oil (HFO) containing up to 2.5 wt% sulphur. The superior additive technologies used in these lubricants provide excellent engine cleanliness and wear protection under different operating conditions. Available in SAE 30 and 40 viscosity grades with BN ranging from 30 to 55, these lubricants exhibit high degree of water tolerance and have excellent water separation and base retention properties. These oils meet the performance requirements of API CF oil category.

The Hanasaki Marine TPEO Series of lubricants provide the following benefits:

- 1) High TBN value (30 and 40) and superior alkalinity retention characteristic that ensure excellent protection against acid corrosion to engines caused by the use of high sulphur fuels.
- 2) Superior detergency/dispersancy additive systems provide exceptional engine cleanliness by effectively controlling varnish, lacquer and other common engine deposits resulting in reduced maintenance cost.
- 3) Separate easily from water to minimize additive depletion during centrifuge.
- 4) Outstanding thermal and oxidation stability to ensure long oil life and good oil consumption control.

Typical Properties

Product Name	Hanasaki TP 3030	Hanasaki TP 3040	Hanasaki TP 4030	Hanasaki TP 4040
BN (Base Number)	30	40	30	40
SAE Viscosity Grade	30	30	40	40
Viscosity @ 40°C (ASTM D445) , cst	112	98	150	136
Viscosity @ 100°C (ASTM D445) , cst	12.1	11.8	14.6	14.8
Viscosity Index (ASTM 2270)	95	97	95	97
Pour Point (ASTM D97) , °C	-9	-21	-9	-21
Flash Point (ASTM D92) , °C	241	243	251	250
Density @ 15°C (ASTM D4052) , kg/l	0.913	0.912	0.919	0.917

Health and Safety

Based on available information, this product is not expected to produce adverse effects on health when used for the intended applications and the recommendations provided in the Material Safety Data Sheet (MSDS). MSDS is available upon request through your sales contact at Hanasaki. This product should not be used for purposes other than its intended use. When disposing of used product, please take care to protect the environment.