

NEPTUNO S-TURBO MAR 15W40



MARINE LUBRICANTS

Lubricants

Description

Multigrade marine lubricant that exceeds traditional S.H.P.D. feature levels. Specially formulated to comply with the demanding needs of modern, turbo and revolution, four-stroke diesel engines in water, under the most severe working conditions, in fishing vessels, leisure boats, auxiliary port vessels and merchant ships. They are specially suited for:

- For use in turbocharged, quick-revving trunk diesel engines intended for propulsion, in auxiliary groups and as emergency engines to generate electric current, as well as in engines requiring a lubricant of higher quality.
- Valid for engines that must comply with "EURO 3" and "EURO 4" regulations on low emission levels, and that run on light fuels with up to 1% sulphur content.

Properties

- Avoids segment sticking by dispersing mud, varnishes and other high temperature oil oxidation products.
- Contains efficient corrosion, oxidation, rust and foam formation inhibitors.
- Avoids cylinder liner polishing typical in over-fuelled, high power engines, with the consequent reduction of specific consumption.
- Excellent detergent capacity that reduces deposits in valves and pistons.
- Very good dispersing qualities that prevents the appearance of mud when cold.
- A highly stable alkaline reserve (TBN) gives great capacity to neutralise the acids formed in the fuel.
- Good cold-flow which facilitates ignition and reduces engine wear.
- Highly stable multi-grade oil with excellent shear resistance.

Quality levels

- API CI-4 / CH-4 / SL.
- ACEA E7/E5.
- MTU Type 2
- Complies with Caterpillar ECF-1-a and ECF-2 requirements

A safety data sheet is available on request.

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Technical data sheet for Lubricants. Revision 8. Febrero 2014.

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Technical specifications

	UNIT	METHOD	VALUE
SAE grade			15W40
Colour		ASTM D 1500	5
Density at 15 °C	g/cm ³	ASTM D 4052	0.879
Viscosity at 100 °C	cSt	ASTM D 445	14.5
Viscosity at 40 °C	cSt	ASTM D 445	107
Viscosity at -20 °C	cP	ASTM D 5293	7000 max.
Viscosity index	-	ASTM D 2270	141
Flash point, open cup	°C	ASTM D 92	215 min.
Pour point	°C	ASTM D 97	-30
TBN	mg KOH/g	ASTM D 2896	10
Bosch Injector Shearing: Viscosity at 100 °C after shear	cSt	ASTM D 3945	12.5 min.
Noack volatility, 1hr at 250 °C	% in weight	DIN 51581	12 max.

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