



HD Marine Trunk Piston Oil

12TBN SAE 40
15TBN SAE 40

DESCRIPTION

HD Marine Trunk Piston Oil is a high-quality detergent alkaline engine oil formulated specifically for medium-speed marine diesel trunk piston engines. It is designed to provide superior protection and performance in engines operating on a variety of fuel types, including high and low sulfur fuel oils, distillate fuel, and marine diesel oil. The oil incorporates advanced additives for excellent detergency, dispersancy, oxidation stability, and anti-wear properties to extend engine life and reduce maintenance intervals.

APPLICATIONS

- ◆ Lubrication of medium-speed marine diesel trunk piston engines used in propulsion and auxiliary power.
- ◆ Suitable for operation on residual fuels with sulfur content up to 3.5% and distillate fuels.
- ◆ Applicable for stern tubes, reduction gears, and turbo-charger bearing lubrication.
- ◆ Recommended for engines requiring control of piston deposits, wear, and corrosion protection.

BENEFITS

- ◆ Excellent detergency and dispersancy: Keeps engines clean by preventing deposits on pistons, rings, and liners.
- ◆ High alkalinity retention: Neutralizes acidic combustion products, preventing corrosion and extending component life.
- ◆ Superior anti-wear protection: Reduces wear of critical components like camshafts, bearings, and piston rings.
- ◆ Outstanding oxidation and thermal stability: Maintains oil quality in high-temperature environments, extending oil change intervals.
- ◆ Water separation properties: Prevents emulsification and facilitates removal of water contamination.
- ◆ Low sludge and deposit formation: Enhances oil filter life and reduces cleaning frequency.
- ◆ Compatibility: Meets or exceeds API CF and relevant marine engine manufacturer specifications.

TYPICAL PROPERTIES

TEST PARAMETER	METHOD	12TBN	15TBN
		SAE 40	SAE 40
Density @ 15 °C, lbs/gal	ASTM D4052	7.31	7.32
Kinematic Visc. @ 40 °C, cSt	ASTM D7042	130	132
Kinematic Visc. @ 100 °C, cSt	ASTM D7042	14.5	14.3
Viscosity Index	ASTM D2270	111	107
Flash Point, °C (°F)	ASTM D93	202 (396)	197 (387)
TBN, mg KOH/g	ASTM D5984	12	15

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