



MARINE DIESEL ENGINE OILS

(Trunk Piston & Engine Cylinder Lubricants)

MARINE DIESEL ENGINE OILS are high TBN engine oils designed specifically for large diesel engines in marine service.

They are compounded with a high performance zinc and calcium additive system to provide superior oxidation resistance, deposit control, and anti-wear protection for engine components in severe services. The high TBN, high sulfated ash formulas contain a balanced detergent-dispersant system to provide excellent alkalinity.

MARINE DIESEL ENGINE OILS satisfy requirements of low to medium speed engines requiring a high detergency, high-performance diesel engine oil.

HIGH TBN (30-70) allows flexibility in choosing residual fuels.

BENEFITS:

- SUPERIOR OXIDATION STABILITY PREVENTS SLUDGE, VARNISH AND CARBON DEPOSITS
- ZINC FORMULA PROTECTS KEY ENGINE COMPONENTS FROM CORROSION AND WEAR
- HIGH ALKALINITY RETENTION MAXIMIZES OIL SERVICE LIFE
- TRUNK PISTONS (TP) OR ENGINE CYLINDER (EC) SERVICE

TYPICAL CHARACTERISTICS

Product Code	18 TP	30 TP	70 EC
SAE Viscosity Grade	40	40	40
API Gravity (ASTM D 1298) and (lb/gal)	24.9 (7.53)	23.4 (7.61)	18.5 (7.86)
Viscosity (ASTM D-445): cSt @ 100°C	13.5	13.5	13.5
Viscosity Index (ASTM D-2270)	97	100	109
Pour Point (ASTM D-97) °F (°C)	-10 (-12)	-10 (-12)	-18 (0)
Flash Point (ASTM D-92) °F (°C)	450 (232)	460 (238)	421 (216)
Color (ASTM D-1500)	5.0	5.5 to 2.0	6.0
Zinc content, ppm	740 to 552	670 to 548	224 to 0
Total Base Number (ASTM D-2896)	18	30	70
Sulfated Ash (ASTM D-874) %	1.7	4.0	9.25

The above data is subject to usual manufacturing variation. For more information and availability, call 1-800-442-LUBE.
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