

MARINÖL Marine Oil SAE 50 TBN 50 API CF

Product Description

MARINÖL MARINE SAE 50 TBN 50 API CF is a high-performance, high-base number (BN 50) trunk piston engine oil designed for use in medium-speed marine and industrial diesel engines operating on residual fuel oils under very high thermal and mechanical stress. Formulated using high-quality base oils and advanced detergent-dispersant additive technology, it ensures excellent deposit control, outstanding resistance to contamination, and enhanced engine cleanliness.

Application

- Crankcase lubrication of marine propulsion and auxiliary engines operating on residual fuels
- Suitable for low and very low oil consumption engines
- Can also be used in marine gearboxes, bearings, and stern tubes where SAE 50 oil is specified
- Compatible with certain medium- and high-speed engines burning distillate fuels, requiring high BN oils

Performance Standards

- API CF
- Suitable for use where lubricants with high TBN and ash content are recommended
- Meets performance needs of engine builders such as MAN, Wärtsilä, MAK, and Pielstick for older-generation residual-fueled engines

Product Features & Benefits

- Excellent protection against corrosion, especially from acidic combustion by-products in residual fuel
- High thermal and oxidation stability for long oil life in hot engine environments
- Strong detergency to prevent piston under-crown and ring groove deposits
- Excellent viscosity control – resists thickening from contaminants
- Reduces maintenance costs through cleaner engine operation
- Excellent wear protection even at extended oil drain intervals
- Maintains oil film strength under high load and pressure conditions

Recommended For

- Heavy-duty marine diesel engines operating under high oil stress
- Industrial stationary diesel engines in power generation and offshore installations
- Systems requiring API CF performance with high alkalinity reserve (TBN 50)

Typical Properties by Viscosity Grade

Property	Method	Typical Result
SAE Viscosity Grade	SAE J300	50
Density @ 15 °C	ASTM D4052	0.921 g/cm ³
Kinematic Viscosity @ 40 °C	ASTM D445	135 mm ² /s
Kinematic Viscosity @ 100 °C	ASTM D445	14 mm ² /s
Viscosity Index	ASTM D2270	100
Flash Point (COC)	ASTM D92	230 °C
Pour Point	ASTM D97	-18 °C
Total Base Number (TBN)	ASTM D2896	50 mg KOH/g
Sulphated Ash	ASTM D874	6.1 % wt
FZG Load Stage	IP 334	11



STORAGE & HANDLING

- Store in a covered, well-ventilated area away from direct sunlight and moisture
- Keep containers sealed when not in use
- Avoid contact with water or other contaminants

Health, Safety, and Environment

- Refer to Material Safety Data Sheet (MSDS) before handling
- Avoid prolonged skin contact with used oil
- Dispose of used oil responsibly through authorized collection centers

