

Product Description

SEAOIL MARINE 412 is a premium trunk piston diesel engine oil (TPEO) formulated using high-quality base oils and advanced marine additive technology designed to provide reliable protection for medium-speed diesel engines operating on distillate fuels.

The formulation provides excellent detergency, dispersancy, oxidation stability, and alkalinity retention while maintaining effective water separation characteristics and engine cleanliness during operation. It is engineered to minimize wear, reduce deposit formation, and support reliable engine performance under severe marine and stationary power generation operating conditions.

SEAOIL MARINE 412 is suitable for medium-speed trunk piston diesel engines in marine propulsion and power generation applications requiring SAE 40 viscosity grade lubricants with TBN 12 performance characteristics.

Specification and Requirements

- API CF

Product Sizes

☒ 200 Liters ☐ 18 Liters ☐ 4 Liters ☐ 1 Liter

Main Applications



- Medium-speed trunk piston diesel engines operating on distillate fuels
- Marine propulsion and auxiliary engine applications
- Stationary power generation diesel engines requiring marine TPEO lubricants
- Diesel engines operating under severe load and continuous-duty conditions
- Applications requiring SAE 40 marine engine oils with approximately 12 TBN alkalinity reserve

Performance Benefits

- **Reliable Engine Wear Protection.** Provides dependable protection against wear for pistons, liners, bearings, and valve train components.
- **Good Oxidation Stability.** Maintains lubricant durability and resists degradation during prolonged high-temperature operation.
- **Superior Alkalinity Retention.** Maintains TBN reserve for effective neutralization of acidic combustion by-products.
- **Excellent Water Separation Characteristics.** Supports rapid water shedding and efficient centrifuge cleaning performance.
- **Engine Cleanliness Control.** Helps minimize sludge and deposit formation to maintain cleaner engine operation.

Test Physical Characteristics

Test Parameter	Test Method	Specification
Appearance	Visual	Clear
Color, ASTM	ASTM D1500	<2.5
Density @15°C, kg/l	ASTM D7777	0.8928
Kinematic Viscosity @40°C, cSt	ASTM D445	145.4
Kinematic Viscosity @100°C, cSt	ASTM D445	14.66
Viscosity Index	ASTM D2270	100
Total Base Number, mgKOH/g	ASTM D2896 (Proc. B)	12.3

Health and Safety

Based on available information, this product is unlikely to produce any significant hazard on health when used for the recommended application provided in the Material Safety Data Sheet (MSDS). Guidance on Health and Safety is available on the appropriate Material Safety and Data Sheet, which can be obtained from <http://www.seaoil.com.ph>

Environment

Bring used oil to a permitted container and place. Do not throw it into the drain or soil.