

SEAOIL MARINE OIL SAE 40 SERIES

Trunk Piston Diesel Engine Oil (TPEO) 4010, 4015, 4020, 4030 & 4040



Product Description

SEAOIL MARINE OIL SAE 40 SERIES are premium trunk piston diesel engine oils formulated using high-quality base oils and advanced marine additive technology designed to provide reliable protection for medium-speed diesel engines operating on distillate and residual fuel oils.

The formulations provide excellent detergency, dispersancy, oxidation stability, alkalinity retention, and water separation characteristics necessary to maintain engine cleanliness and minimize wear under severe operating conditions. They are engineered to support extended engine reliability and efficient operation in marine propulsion and stationary power generation applications.

The series is available in multiple TBN levels to support varying fuel sulfur content, engine operating severity, and OEM lubrication requirements.

Specification and Requirements

- API CF

Product Sizes

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

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Main Applications



- Medium-speed trunk piston diesel engines used in marine propulsion and auxiliary systems
- Stationary power generation diesel engines operating under continuous-duty conditions
- Diesel engines operating on distillate and residual fuel oils
- Applications requiring varying TBN reserve levels based on fuel sulfur content and operating severity
- Marine engine systems requiring SAE 40 trunk piston diesel engine oils

Performance Benefits

- **Reliable Engine Wear Protection.** Provides dependable protection for pistons, liners, bearings, and valve train components.
- **Good Oxidation Stability.** Maintains lubricant durability during prolonged high-temperature operation.
- **Superior Alkalinity Retention.** Supports neutralization of acidic combustion by-products and sustained engine cleanliness.
- **Excellent Water Separation Characteristics.** Supports rapid water shedding and efficient centrifuge cleaning capability.
- **Deposit and Sludge Control.** Helps minimize deposit formation and maintain cleaner engine operation.

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Test Physical Characteristics

Test Parameter	Test Method	Specification				
Marine Engine Oil		4010	4015	4020	4030	4040
SAE Grade		40	40	40	40	40
Appearance	Visual	Clear	Clear	Clear	Clear	Clear
Color, ASTM	ASTM D1500	<2.5	<2.5	<2.5	<3.5	<3.5
Density @15°C, kg/l	ASTM D7777	0.8938	0.8964	0.904	0.9017	0.9119
Kinematic Viscosity @40°C, cSt	ASTM D445	147.5	144.1	140.0	123.0	141.8
Kinematic Viscosity @100°C, cSt	ASTM D445	14.57	14.60	14.5	13.25	14.63
Viscosity Index	ASTM D2270	98	100	99	102	102
Total Base Number, mgKOH/g	ASTM D2896 (Proc. B)	11.5	15.7	20	31.7	42.1

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.