

Marine Piston S2 40

High-Performance Trunk Piston Engine Oil (TPEO) for
Medium-Speed Marine Diesel Engines

Description

MAXFLUID Marine Piston S2 40 is a premium multifunctional trunk piston engine oil (TPEO) developed by MAXFLUID for medium-speed marine and stationary diesel engines operating on residual, blended, distillate, and biofuels. Formulated as an SAE 40 lubricant with a Base Number (BN) of 20, it provides dependable protection against deposits, corrosion, oxidation, and wear under conditions of low oil stress.

Manufactured using highly refined mineral base oils and an advanced detergent/dispersant additive system, Marine Piston S2 40 delivers excellent crankcase cleanliness, piston deposit control, oxidation stability, and efficient water separation. Its balanced formulation provides reliable engine protection while offering the flexibility to operate with multiple fuel types, making it an excellent choice for modern marine and industrial diesel engines.

Performance Features & Benefits

Extended Oil Service Life

Excellent oxidation resistance helps preserve lubricant quality and Base Number (BN), supporting longer oil service intervals while reducing maintenance requirements.

Superior Engine Cleanliness

Advanced detergent technology minimizes deposits on pistons, crankcases, valve decks, and other critical engine components, helping maintain engine efficiency and long-term reliability.

Reliable Corrosion & Wear Protection

The BN 20 formulation effectively neutralizes acidic combustion by-products while protecting pistons, cylinder liners, bearings, and other critical engine components against corrosive wear.

Efficient Contaminant Control

Balanced detergency and controlled dispersancy allow contaminants and water to separate efficiently in centrifugal separators, helping maintain lubricant cleanliness throughout its service life.

Multi-Fuel Compatibility

Suitable for engines operating on residual fuel oils, blended fuels, distillate fuels, and biofuels, making it ideal for vessels that regularly alternate between different fuel types.

Applications

MAXFLUID Marine Piston S2 40 is recommended for:

- Medium-speed trunk piston marine diesel engines
- Marine propulsion and auxiliary engines
- Stationary medium-speed diesel engines
- Engines operating on residual fuel oils (RFO)
- Blended marine fuels
- Marine distillate fuels (MDO/MGO)
- Marine biofuels
- Marine reduction gears where TPEO is recommended
- Shipboard auxiliary equipment requiring an SAE 40 multifunctional lubricant

Always follow the engine manufacturer's recommendations regarding lubricant selection and maintenance intervals.

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Product Advantages

- SAE 40 viscosity with BN 20 protection
- Suitable for residual, blended, distillate, and biofuels
- Excellent oxidation resistance
- Outstanding piston and crankcase cleanliness
- Reliable protection against deposits and corrosion
- Excellent water separation characteristics
- Dependable anti-wear performance
- High thermal stability
- Supports extended lubricant service life
- Helps reduce maintenance costs and improve engine reliability

TYPICAL PHYSICAL CHARACTERISTICS

PROPERTIES	UNIT	METHOD	Marine Piston S2 40
SAE grade (viscosity class)	-	-	40
Kinematic Viscosity @ 40°C	mm ² /s	ASTM D445	131
Kinematic Viscosity @ 100°C	mm ² /s	ASTM D445	13.7
Viscosity Index	-	ASTM D2270	100
Density @ 15°C	kg/m ³	ASTM D4052	900
Flash Point	°C	ASTM D93	230
Pour Point	°C maximum	ASTM D97	-9
TBN	mg KOH/g	ASTM D2896	20
Sulphated Ash	% m/m	ASTM D874	2.6

The values shown are typical characteristics and may vary within normal manufacturing tolerances.

Health and Safety

MAXFLUID Marine Piston S2 40 is a premium trunk piston engine oil intended for medium-speed marine diesel engines. Under normal operating conditions and when handled correctly, the product is not expected to present significant health or safety hazards.

Avoid prolonged or repeated skin contact and prevent contact with eyes. Wear appropriate personal protective equipment (PPE), including protective gloves and safety glasses, when handling the product. Ensure adequate ventilation in enclosed spaces and avoid inhalation of oil mists.

Store in tightly sealed containers in a cool, dry, and well-ventilated area away from direct sunlight, excessive heat, and incompatible materials. Prevent spills from entering drains, waterways, or soil.

For detailed information regarding safe handling, storage, transportation, and disposal, refer to the latest Safety Data Sheet (SDS) for MAXFLUID Marine Piston S2 40.