

Marine Piston S2 30

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

Description

MAXFLUID Marine Piston S2 30 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 30 lubricant with a Base Number (BN) of 20, it provides reliable 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 30 delivers excellent crankcase cleanliness, piston deposit control, oxidation stability, and efficient water separation. Its balanced formulation offers dependable engine protection while providing the flexibility to operate across multiple fuel types, making it an ideal 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 and reducing maintenance requirements.

Superior Engine Cleanliness

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

Reliable Corrosion & Wear Protection

Effectively neutralizes acidic combustion by-products while protecting bearings, pistons, cylinder liners, and other engine components against corrosive wear.

Efficient Contaminant Control

The balanced detergency and controlled dispersancy allow water and contaminants 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 an excellent choice for vessels that frequently switch between different fuel types.

Applications

MAXFLUID Marine Piston S2 30 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 30 multifunctional lubricant

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

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Product Advantages

- BN 20 formulation for low oil stress applications
- 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 wear protection
- 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 30
SAE grade (viscosity class)	-	-	30
Kinematic Viscosity @ 40°C	mm ² /s	ASTM D445	106
Kinematic Viscosity @ 100°C	mm ² /s	ASTM D445	11.85
Viscosity Index	-	ASTM D2270	100
Density @ 15°C	kg/m ³	ASTM D4052	898
Flash Point	°C	ASTM D93	210
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 30 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 30.