

Marine Piston S4 40

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

Description

MAXFLUID Marine Piston S4 40 is a premium multifunctional trunk piston engine oil (TPEO) developed by MAXFLUID for modern medium-speed marine and stationary diesel engines operating on residual fuel oils under high oil stress conditions. Formulated as an SAE 40 lubricant with a Base Number (BN) of 40, it provides outstanding protection against deposits, corrosion, oxidation, and wear while maintaining engine cleanliness and lubricant performance throughout extended service intervals.

Manufactured using highly refined mineral base oils and an advanced high-detergency additive system, Marine Piston S4 40 delivers excellent crankcase cleanliness, piston deposit control, oxidation stability, and water separation. It is specifically designed for engines operating under high load factors, moderate oil consumption, and demanding marine environments where enhanced detergency and acid neutralization are essential.

Performance Features & Benefits

Extended Oil Service Life

Advanced oxidation-resistant technology helps maintain viscosity and Base Number (BN), reducing lubricant degradation and minimizing the need for oil sweetening while supporting extended drain intervals.

Excellent Engine Cleanliness

A high-performance detergent package minimizes deposits on pistons, piston undercrowns, crankcases, valve decks, and other critical engine components, helping maintain engine efficiency and reliability.

Superior Deposit & Corrosion Protection

The BN 40 formulation effectively neutralizes acidic combustion products while protecting engine components against corrosive wear and reducing deposit formation in high-temperature operating zones.

Efficient Contaminant Control

Optimized detergency combined with controlled dispersancy allows efficient removal of water and insoluble contaminants through centrifugal separators, helping maintain lubricant cleanliness and system performance.

Reliable Performance Under High Oil Stress

Designed for medium-speed diesel engines operating under high loads and severe service conditions, providing dependable lubrication and long-term equipment protection.

Applications

MAXFLUID Marine Piston S4 40 is recommended for:

- Medium-speed trunk piston marine diesel engines
- Main propulsion and auxiliary marine engines
- Medium-speed stationary diesel engines
- Engines operating on residual fuel oils (RFO/HFO)
- Marine engines operating under high oil stress
- 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 service intervals.

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Product Advantages

- BN 40 formulation for high oil stress applications
- Excellent oxidation and thermal stability
- Outstanding piston and crankcase cleanliness
- Superior protection against deposits and corrosion
- High detergency for cleaner engine operation
- Excellent water separation characteristics
- Reliable wear protection under heavy-duty service
- Suitable for modern medium-speed marine diesel engines
- Supports extended lubricant service life
- Helps reduce maintenance costs and improve engine reliability

TYPICAL PHYSICAL CHARACTERISTICS

PROPERTIES	UNIT	METHOD	Marine Piston S4 40
SAE grade (viscosity class)	-	-	40
Kinematic Viscosity @ 40°C	mm ² /s	ASTM D445	127
Kinematic Viscosity @ 100°C	mm ² /s	ASTM D445	13.7
Viscosity Index	-	ASTM D2270	104
Density @ 15°C	kg/m ³	ASTM D4052	910
Flash Point	°C	ASTM D93	230
Pour Point	°C	ASTM D97	-21
TBN	mg KOH/g	ASTM D2896	40
Sulphated Ash	% m/m	ASTM D874	5.0

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

Health and Safety

MAXFLUID Marine Piston S4 40 is a premium trunk piston engine oil intended for medium-speed marine diesel engines operating under demanding service conditions. 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 S4 40.