

# Marine Piston S3 30

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

## Description

MAXFLUID Marine Piston S3 30 is a premium multifunctional trunk piston engine oil (TPEO) developed by MAXFLUID for medium-speed marine and stationary diesel engines operating on residual fuel oils, blended fuels, and biofuels. Formulated as an SAE 30 lubricant with a Base Number (BN) of 30, it provides outstanding protection against deposits, corrosion, wear, and oxidation under conditions of moderate oil stress.

Manufactured using highly refined mineral base oils and an advanced detergent/dispersant additive system, Marine Piston S3 30 delivers excellent crankcase cleanliness, piston deposit control, oxidation stability, and water separation. Its balanced formulation helps maintain engine reliability, reduce maintenance requirements, and extend lubricant service life in demanding marine environments.

## Performance Features & Benefits

### Extended Oil Service Life

Advanced oxidation inhibitors help resist thermal degradation and preserve the lubricant's Base Number (BN), supporting longer drain intervals and reducing the need for oil sweetening.

### Superior Engine Cleanliness

High-performance detergent technology minimizes deposits on pistons, piston undercrowns, valve decks, crankcases, and other critical engine components, promoting cleaner and more efficient engine operation.

### Excellent Corrosion & Wear Protection

Provides reliable protection against corrosive combustion by-products while reducing wear on bearings, pistons, cylinder liners, and other heavily loaded engine components.

### Efficient Contaminant Control

The optimized detergency and controlled dispersancy enable efficient removal of contaminants and water through centrifugal separators, helping maintain lubricant cleanliness throughout its service life.

### Reliable Engine Performance

Maintains stable lubrication under demanding operating conditions, contributing to dependable engine performance and reduced maintenance costs.

## Applications

**MAXFLUID Marine Piston S3 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 biofuels
- Marine reduction gears where TPEO is recommended
- Shipboard 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 30 formulation for moderate oil stress conditions
- Excellent oxidation resistance
- Outstanding piston and crankcase cleanliness
- Superior protection against deposits and corrosion
- Excellent water separation characteristics
- Reliable wear protection
- High thermal stability
- Suitable for residual fuel, blended fuel, and biofuel applications
- Supports extended lubricant service life
- Helps reduce maintenance costs and improve engine reliability

## TYPICAL PHYSICAL CHARACTERISTICS

| PROPERTIES                   | UNIT               | METHOD     | Marine Piston S3 30 |
|------------------------------|--------------------|------------|---------------------|
| SAE grade (viscosity class)  | -                  | -          | 30                  |
| Kinematic Viscosity @ 40°C   | mm <sup>2</sup> /s | ASTM D445  | 105                 |
| Kinematic Viscosity @ 100°C  | mm <sup>2</sup> /s | ASTM D445  | 11.85               |
| Viscosity Index              | -                  | ASTM D2270 | 101                 |
| Density @ 15°C               | kg/m <sup>3</sup>  | ASTM D4052 | 905                 |
| Flash Point                  | °C                 | ASTM D93   | 210                 |
| Pour Point                   | °C maximum         | ASTM D97   | -9                  |
| TBN                          | mg KOH/g           | ASTM D2896 | 30                  |
| Load Carrying Capacity (FZG) | Failure load Stage | A/8.3/90   | 11                  |

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

## Health and Safety

MAXFLUID Marine Piston S3 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 S3 30.