Protevia S3 40

High-Performance Marine Trunk Piston Engine Oil (TPEO)

Description

MAXFLUID Protevia S3 40 is a premium-quality multifunctional marine trunk piston engine oil developed by MAXFLUID for medium-speed marine diesel engines operating on distillate fuels, hybrid fuels, and approved biofuels with sulphur levels up to 1%. Formulated with highly refined mineral base oils and advanced detergent, dispersant, antioxidant, and anti-wear additive technology, Protevia S3 40 provides outstanding engine cleanliness, wear protection, oxidation stability, and corrosion resistance under demanding marine operating conditions.

In addition to engine lubrication, Protevia S3 40 is suitable for a range of onboard auxiliary applications, including gearboxes, clutches, stern tubes, and other marine equipment requiring an SAE 40 lubricant. Its multifunctional performance helps simplify onboard lubricant management by reducing the number of lubricant grades carried.

Performance Features & Benefits

Extended Oil Service Life
Excellent resistance to oxidation and thermal degradation helps extend lubricant life, reducing oil change intervals and lowering maintenance costs in severe operating environments.

Superior Engine Cleanliness
Advanced detergent and dispersant technology minimizes piston deposits, ring groove contamination, sludge, and lacquer formation, helping maintain engine efficiency and reduce oil consumption.

Excellent Wear Protection
Provides reliable protection for pistons, cylinder liners, bearings, camshafts, and valve train components, contributing to extended engine life and dependable operation.

Outstanding Corrosion Protection
Neutralizes acidic combustion by-products and protects internal engine components against rust and corrosion, even under humid marine operating conditions.

Excellent Water Handling
Provides effective water tolerance and rapid water separation, allowing efficient removal of water contamination through onboard purification systems while maintaining lubricant performance.

Multifunctional Marine Performance
Suitable for numerous onboard applications, helping operators reduce lubricant inventory while maintaining reliable protection across multiple marine systems.

Applications

MAXFLUID Protevia S3 40 is recommended for:

- Medium-speed marine trunk piston diesel engines
- Main propulsion and auxiliary marine engines operating on distillate fuels
- Marine engines operating on approved hybrid and biofuels
- High-speed marine diesel engines used in fishing vessels and workboats where SAE 40 engine oil is specified
- Marine reduction gearboxes (where engine oil is recommended)
- Oil-lubricated stern tubes
- Marine clutches
- Variable pitch propeller systems
- Deck machinery and auxiliary marine equipment requiring SAE 40 oil

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Product Advantages

- Excellent oxidation and thermal stability
- Superior engine cleanliness
- Outstanding wear protection
- Excellent rust and corrosion resistance
- Effective control of sludge and lacquer formation
- Excellent water tolerance and demulsibility
- Reliable foam control and rapid air release
- Multifunctional for engine and auxiliary equipment
- Helps reduce maintenance costs and lubricant inventory

TYPICAL PHYSICAL CHARACTERISTICS

PROPERTIES	UNIT	METHOD	Protevia S3 40
SAE grade (viscosity class)	-	-	40
Kinematic Viscosity @ 40°C	mm^2/s	ASTM D445	128
Kinematic Viscosity @ 100°C	mm^2/s	ASTM D445	13.7
Viscosity Index	-	ASTM D2270	103
Density @ 15°C	kg/m^3	ASTM D4052	890
Flash Point	°C	ASTM D93	230
Pour Point	°C	ASTM D97	-21
TBN	mg/KOH/g	ASTM D2896	12
Load Carrying Capacity (FZG)	Failure Load Stage	FZG A/8.3/90	12

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

Health and Safety

MAXFLUID Protevia S3 40 is a high-quality marine trunk piston engine oil formulated for medium-speed marine diesel engines and auxiliary marine equipment. Under normal operating conditions and when handled in accordance with recommended practices, 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, please refer to the latest Safety Data Sheet (SDS) for MAXFLUID Protevia S3 40.

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