ALESTA S 40-12

Medium-Speed Trunk Piston Diesel Engine Oil

REXOIL ALESTA S 40-12 is a high-performance trunk piston diesel engine oil developed for medium-speed marine diesel engines operating under demanding conditions. Formulated with high-quality base oils and an advanced additive system, it provides excellent lubrication, engine cleanliness, and protection against wear and corrosion.

The product is designed to control deposits, neutralize acidic by-products of combustion, and maintain engine efficiency over extended operating periods. It ensures effective protection of pistons, rings, cylinder liners, and bearings, even when operating with varying fuel qualities and under high thermal and mechanical stress.

ALESTA S 40-12 is recommended for use in medium-speed trunk piston engines used in marine propulsion and auxiliary applications. It is suitable for engines operating on marine diesel oil (MDO), other distillate fuels, and biofuels containing up to 1% sulphur by weight, delivering reliable performance, reduced maintenance requirements, and extended engine service life.

Features and Benefits

- Provides excellent engine cleanliness by controlling sludge and deposit formation in critical engine areas.
- Ensures reliable wear protection for pistons, liners, and bearings under demanding operating conditions.
- Offers strong oxidation stability, maintaining oil performance over extended service intervals.
- Neutralizes acidic combustion by-products, helping to protect engine components from corrosion.
- Delivers high thermal stability, enabling consistent performance at elevated temperatures.
- Supports efficient engine operation and helps maintain overall system reliability.
- Helps extend maintenance intervals and reduces operational downtime.

Approval and Specifications

YANMAR; Everllence (MAN ES); Daihatsu; Caterpillar; Rolls Royce; Hyundai

Technical Specifications

Test	Method	Typical Properties
Kinematic Viscosity (100°C), [cSt]	ASTM D445	12,8 – 16,3
Density @ 15^{0}C g/ml	ASTM D4052	0,885 - 0,905
Viscosity Index	ASTM D2270	Min. 90
Flash Point, °C	ASTM D92	Min. 235
Pour Point, °C	ASTM D97	Max. -15
Total Base Number, mg KOH/g	ASTM D2896	Min. 12,0

Health and Safety

This product does not pose a significant health or safety risk when used appropriately. For detailed safety information, please refer to the Safety Data Sheet (SDS).

Storage & Handling

Store in a cool, dry, and well-ventilated area, away from direct sunlight and moisture. Keep containers tightly closed to prevent contamination. Dispose of contents and containers in accordance with local regulations.

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