ALESTA H 40-50

Medium-Speed Trunk Piston Diesel Engine Oil

REXOIL ALESTA H 40-50 is a high-performance **medium-speed trunk piston diesel engine oil**, specifically formulated for use in marine and stationary diesel engines operating under demanding conditions. It is designed for engines burning **residual fuels with sulfur content up to 4.5%**, where effective neutralization of acidic by-products is essential.

This lubricant provides a well-balanced formulation combining **excellent detergency, dispersancy, and oxidation stability**, helping to maintain engine cleanliness by minimizing deposits on pistons, ring zones, and undercrown areas. Its robust alkalinity reserve supports long service intervals by effectively controlling acid formation resulting from high-sulfur fuel combustion.

ALESTA H 40-50 is particularly recommended for **medium-speed trunk piston engines with low oil consumption**, ensuring optimal lubrication performance, reduced wear, and reliable engine protection even under continuous operation. It is suitable for use in **marine propulsion systems, auxiliary engines, and power generation units** where high-load and high-temperature conditions are present.

Features and Benefits

- **High Acid Neutralization Capacity -** Provides strong alkalinity reserve to effectively neutralize acidic by-products formed during combustion of high-sulfur residual fuels.
- **Excellent Engine Cleanliness -** Advanced detergent and dispersant system minimizes piston deposits, ring sticking, and sludge formation, ensuring cleaner engine components.
- **Superior Wear Protection -** Forms a durable lubricating film that reduces metal-to-metal contact, extending engine component life under heavy-duty operating conditions.
- **Outstanding Oxidation Stability -** Resists oil degradation at high temperatures, helping to maintain performance and prolong oil service life.
- **Deposit Control in Critical Areas -** Keeps piston undercrown, ring belt, and crankcase areas clean, supporting efficient engine operation and reducing maintenance needs.
- **Optimized for Low Oil Consumption Engines -** Maintains performance in engines with low oil consumption, ensuring effective lubrication and alkalinity retention over extended periods.

Approval and Specifications

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

Technical Specifications

Test	Method	Typical Properties
Kinematic Viscosity (100°C), [cSt]	ASTM D445	13,0 – 16,0
Density @ 15^{0}C g/ml	ASTM D4052	0,890 - 0,920
Viscosity Index	ASTM D2270	Min. 90
Flash Point, °C	ASTM D92	Min. 230
Pour Point, °C	ASTM D97	Max. -12
Total Base Number, mg KOH/g	ASTM D2896	Min. 50,0

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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