ALESTA LSX 50-40

Diesel Marine Engine Cylinder Oil

REXOIL ALESTA LSX 50-40 is a high-performance **marine cylinder oil** developed for **low-speed, two-stroke crosshead marine diesel engines**. The product is specifically formulated to meet the operational requirements of engines running on fuels compliant with the **IMO 2020 Global Sulphur Cap (≤ 0.50% m/m)**.

Thanks to its balanced formulation, **ALESTA LSX 50-40** effectively neutralizes acidic combustion by-products while maintaining piston and ring zone cleanliness, helping to reduce engine maintenance requirements.

Features and Benefits

- **Optimized Alkalinity Reserve (40 BN)**

Provides effective neutralization of acidic combustion by-products generated during low sulphur fuel operation, supporting controlled corrosion levels and stable engine performance.

- **Advanced Piston Cleanliness Control**

Maintains cleanliness in the piston crown, ring pack, and under-crown areas, helping to reduce deposit formation and prevent ring sticking under high thermal stress.

- **Excellent Wear Protection**

Forms a durable lubricating film on cylinder liners and piston rings, minimizing metal-to-metal contact and reducing wear during continuous and variable load operation.

- **Controlled Ash and Deposit Formation**

Designed to balance detergency and ash content, supporting cleaner combustion spaces and reducing the risk of abrasive deposits and liner polishing.

- **Thermal and Oxidation Stability**

Resists oil degradation at elevated temperatures, maintaining viscosity stability and consistent lubrication performance over extended operating periods.

Approval and Specifications

MAN Energy Solutions; WinGD (Wärtsilä); Mitsubishi Heavy Engines

Technical Specifications

Test	Method	Typical Properties
Kinematic Viscosity (100°C), [cSt]	ASTM D445	17,0 – 21,6
Density @ 15^{0}C g/ml	ASTM D4052	0,910 - 0,930
Viscosity Index	ASTM D2270	Min. 90
Flash Point, °C	ASTM D92	Min. 240
Pour Point, °C	ASTM D97	Max. -15
Total Base Number, mg KOH/g	ASTM D2896	Min. 40,0

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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