ALESTA ML 50-20

Two-Stroke Crosshead Engines Operating on Low-Sulphur Fuels

REXOIL ALESTA ML 50-20 is a high-performance **marine diesel engine cylinder lubricant**, specifically developed for **two-stroke crosshead engines** operating on **low-sulphur fuels**. It is engineered to meet the lubrication demands of modern marine engines where reduced sulphur content requires precise control of deposit formation and protection against corrosive and abrasive wear.

This lubricant features a carefully balanced formulation combining **controlled alkalinity, excellent detergency, and strong lubricating film strength**, ensuring effective piston ring lubrication and cylinder liner protection. Its optimized Base Number (BN) level is designed to prevent over-lubrication effects such as excessive ash deposits while still providing adequate neutralization of residual acids.

ALESTA ML 50-20 is particularly suitable for engines operating under **variable load conditions**, where maintaining piston cleanliness, ring pack mobility, and liner surface integrity is critical. It supports efficient cylinder performance by reducing the risk of scuffing, minimizing deposit formation, and promoting smooth, reliable engine operation.

The product is recommended for use in **modern low-speed two-stroke crosshead marine engines**, including main propulsion systems operating on low-sulphur fuels in compliance with global emission regulations such as IMO requirements.

Features and Benefits

- **Optimized Alkalinity for Low-Sulphur Operation -** Provides balanced acid neutralization while preventing excessive deposit formation associated with low-sulphur fuels.
- **Excellent Piston Cleanliness -** Advanced detergent system minimizes deposits on piston crowns and ring zones, ensuring efficient combustion and performance.
- **Enhanced Anti-Scuffing Protection -** Forms a strong lubricating film that protects cylinder liners and piston rings from scuffing and abnormal wear.
- **Controlled Ash Formation -** Reduces ash-related deposits, helping maintain ring mobility and preventing liner polishing.
- **Compatibility with Modern Engine Designs -** Suitable for electronically controlled engines and optimized lubrication systems.

Approval and Specifications

WinGD (Wärtsilä); Everllence (MAN ES); Mitsubishi

Technical Specifications

Test	Method	Typical Properties
Kinematic Viscosity (100°C), [cSt]	ASTM D445	17,3 – 21,5
Density @ 15^{0}C g/ml	ASTM D4052	0,895 - 0,925
Viscosity Index	ASTM D2270	Min. 90
Flash Point, °C	ASTM D92	Min. 235
Pour Point, °C	ASTM D97	Max. -9
Total Base Number, mg KOH/g	ASTM D2896	Min.20,0

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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