# ALESTA ML 50-40

*Low-Speed, Two-Stroke Crosshead Diesel Engines Oil*

**REXOIL ALESTA ML 50-40** is a premium-quality marine cylinder lubricant formulated from highly refined base oils and an advanced, well-balanced additive system, specifically engineered to meet the lubrication demands of modern low-speed crosshead marine diesel engines. It is designed to deliver controlled alkalinity for the effective neutralization of acidic combustion products formed during the operation on low sulphur residual fuels, thereby protecting critical engine components against corrosive wear.

The product is intended for applications where a medium alkalinity cylinder oil is required to achieve an optimal balance between acid neutralization and deposit control. It is suitable for use in engines operating under a wide range of conditions, including slow steaming and variable load operations, where maintaining piston cleanliness and liner condition is essential. REXOIL ALESTA ML 50-40 supports reliable and efficient performance in deep-sea vessels, container ships, and bulk carriers requiring consistent cylinder lubrication and long component life.

In addition, the product may be applied in certain trunk piston diesel engines operating on residual fuels with a sulphur content of up to 4.5%, where a medium alkalinity lubricant is required to ensure adequate acid neutralization and effective control of deposits.

## *Features and Benefits*

- Provides optimized alkalinity (TBN 40) to neutralize acidic combustion products while avoiding excessive deposit formation.
- Promotes excellent piston and ring pack cleanliness, reducing deposit build-up and maintaining efficient engine operation.
- Minimizes cylinder liner wear through the formation of a durable lubricating oil film under high-pressure conditions.
- Controls cold corrosion and acid attack, supporting extended liner and ring life.
- Offers high thermal stability to maintain performance under severe operating temperatures and pressures.
- Ensures effective deposit control in low sulfur fuel applications, supporting compliance with modern marine operating practices.
- Contributes to reduced feed rate requirements when properly optimized, improving overall lubrication efficiency.

## *Approval and Specifications*

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

## *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 | 0,895 - 0,930 |
| **Viscosity Index** | ASTM D2270 | Min. 90 |
| **Flash Point, °C** | ASTM D92 | Min. 230 |
| **Pour Point, °C** | ASTM D97 | Max. -9 |
| **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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