

## AXCL ULTRAMARINE Cylinder Oil Z50100 (SAE 50, TBN 100)

### Description

AXCL ULTRAMARINE Cylinder Oil Z50100 is a premium, high-alkaline lubricant specifically designed for low-speed, two-stroke crosshead engines experiencing cold corrosion that cannot be controlled with standard 70 BN cylinder oils. This engine oil is formulated for use in engines primarily operating on fuel with a sulfur content exceeding 1.5% and approved by major OEMs, including MAN and Wärtsilä.

### Key Features:

- **Superior cold corrosion protection:** High alkalinity effectively neutralizes acids produced during combustion, preventing corrosion and safeguarding engine components, especially in cold operating conditions.
- **Advanced wear protection:** Minimizes wear on critical engine components, leading to longer operation between overhauls and reduced maintenance costs.
- **Enhanced engine cleanliness:** Detergent and dispersant properties maintain clean engine internals, minimizing deposit formation and promoting efficient operation.
- **Excellent oil performance and extended drain intervals:** Superior oxidation stability extends oil life and reduces thickening, allowing for extended drain intervals and reduced oil consumption.
- **Broad compatibility:** Works effectively in both modern and older two-stroke marine engines.
- **Fast water separation:** Quickly separates from water in case of contamination, protecting the engine from harmful water ingress.
- **Enhanced resistance to degradation:** Resists acid attack and thermal degradation for optimal performance and engine protection under demanding conditions.

### OEM Approvals:

MAN, Wärtsilä

### Applications:

- **Ideal for low-speed, two-stroke crosshead engines:** Particularly suitable for engines:
  - Experiencing cold corrosion not controlled by standard 70 BN cylinder oils.
  - Burning high sulfur (>1.5%) HFO.
  - Operating under very high thermal and mechanical loads.
- **Wide range of applications:** Applicable for various slow-speed, two-stroke marine engines.

### Benefits & Advantages:

- **Extended engine life and reduced maintenance costs:**
  - Superior cold corrosion protection safeguards engines in harsh operating conditions, extending engine life and reducing the need for frequent overhauls.

- Advanced wear protection minimizes component wear, lowering maintenance costs and extending service intervals.
- **Improved engine cleanliness and efficiency:**
  - Detergents and dispersants keep the engine clean, minimizing deposit formation and promoting efficient operation, which can lead to improved fuel efficiency and performance.
- **Reduced oil consumption and waste:**
  - Extended drain intervals due to superior oxidation stability allow for less frequent oil changes, reducing waste and environmental impact.
  - Lower oil consumption contributes to operational cost savings.
- **Versatility for diverse applications:**
  - Suitable for various low-speed, two-stroke marine engines, including those:
  - Experiencing cold corrosion.
  - Burning high sulfur (>1.5%) HFO.
  - Operating under very high thermal and mechanical loads.

## Specification & Parameter

#	Test	Method	Result
1.	Viscosity Grade	SAE	<b>50</b>
2.	Appearance	Visual	Bright & Clear
3.	Colour	ASTM D 1500	L 3.0
4.	Kin. Viscosity @ 40 °C, cSt	ASTM D 445	222.0
5.	Kin. Viscosity @ 100 °C, cSt	ASTM D 445	19.65
6.	Viscosity Index	ASTM D 2270	101
7.	Density @ 15 °C	ASTM D 1298	0.94
8.	TBN, mg KOH/g	ASTM D 2896	100
9.	Flash Point, °C	ASTM D 92	≥ 250
10.	Pour Point, °C	ASTM D 97	≤ - 15
11.	Foam Seq. I, II, III	ASTM D 892	Pass
12.	Water Content	Crackles	Nil

*\*Technical data provided here is for reference only. Minor variations in product typical test data are to be expected.*

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