

## AXCL ULTRAMARINE Cylinder Oil Z5025 (SAE 50, TBN 25)

### Description

AXCL ULTRAMARINE Cylinder Oil Z5025 is a premium lubricant specifically designed for modern two-stroke engines operating under demanding conditions. This high-performance oil is ideal for engines using low sulfur fuel (up to 0.1 wt%) and experiencing high mechanical and thermal loads. It is also formulated to meet the strict regulations of Emission Control Areas (ECAs).

### Key Features and Benefits:

- **ECA Compliance:** Ensures compatibility with low sulfur distillate fuels used in ECAs.
- **Superior Protection:** High alkalinity effectively neutralizes acids produced during combustion, preventing corrosion and safeguarding cylinders for extended engine life.
- **Exceptional Wear Resistance:** Advanced additives minimize wear on liner rings and other critical engine components.
- **Enhanced Cleanliness and Extended Life:** Detergent and dispersant properties keep internal components clean, while improved oxidation stability extends oil life and reduces thickening, leading to longer operation between overhauls.

### Applications:

- **Low-speed, two-stroke crosshead engines:** Ideal for engines using very low sulfur fuels (<0.1 wt%).
- **Emission Control Areas (ECAs):** Perfect choice for vessels operating primarily in ECAs.
- **Compatibility:** Suitable for both the latest generation and older two-stroke marine engines.

### Benefits and Advantages:

- **Excellent TBN retention:** Maintains strong oil performance with minimal consumption and extended drain intervals.
- **High alkalinity:** Effectively neutralizes acids generated by low sulfur fuels, reducing wear on cylinder liners and piston rings, and extending their lifespan.
- **Improved engine cleanliness:** Ashless dispersant additives minimize deposits on pistons and valves, promoting cleaner operation and reduced wear.
- **Reduced wear and extended service life:** Minimizes cylinder wear and scuffing, allowing for longer operation between overhauls.
- **Water separation:** Separates quickly from water in case of contamination.
- **Enhanced resistance:** Resists acid attack and thermal degradation for optimal performance and engine protection.

## 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	218.0
5.	Kin. Viscosity @ 100 °C, cSt	ASTM D 445	19.5
6.	Viscosity Index	ASTM D 2270	102
7.	Density @ 15 °C	ASTM D 1298	0.91
8.	TBN, mg KOH/g	ASTM D 2896	25
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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