

TECHNICAL PRODUCT SHEET

# NAUTILUS LS II

## SAE 50



### DESCRIPTION

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NAUTILUS LS II is a superb quality cylinder oil designed for mark 9 and above 2-stroke engines two-stroke marine engines running on low sulfur distillate or heavy fuel oils. It consists of superior-quality mineral base oils and the latest innovative additive technology. It has been developed for heavy duty marine diesel engines operating under demanding conditions. It provides superior liner protection against wear and excellent piston cleanliness, properties that enable the long-life cycle of the powertrain.

### APPLICATIONS

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NAUTILUS LS II, a highly effective solution for cylinder lubrication in low-speed crosshead marine diesel engines. This product is suitable for both Mark 9 and newer engines, as well as Mark 8 and older engines, operating under high temperatures and load conditions. NAUTILUS LS II performs excellently when running on fuel with low sulfur content up to 1.5%. It can also be used with fuels containing up to 2-2.5% sulfur, depending on local market supply parameters and OEM recommendations. This makes it a versatile choice for various fuel conditions. Additionally, NAUTILUS LS II is highly recommended for use in 2-stroke marine and stationary engine applications, such as power generation stations. Its formulation ensures optimal performance and engine protection, making it a reliable choice for demanding environments.

### SPECIFICATIONS

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Everlence ES Category II (LoS)

### PROPERTIES

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NAUTILUS LS II incorporates an enhanced additive system that delivers reliable wear protection under demanding operating conditions. Its exceptional detergency properties safeguard the oil system from contamination caused by accidental combustion-residue leakage, while its improved boundary lubrication ensures consistent protection even at low film thicknesses. Fully compatible with commercially available MCL oils, NAUTILUS LS II provides dependable performance and operational flexibility across marine applications.

### BENEFITS

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NAUTILUS LS II provides maximum protection against adhesive and corrosive wear, helping extend the engine's life cycle and reduce maintenance costs. It ensures exceptional engine cleanliness with minimal deposits on the piston, piston rings, ring grooves and cylinder ports, delivering performance equivalent to MCL TBN 100 oils. A protective lubricating film remains permanently on engine components, enabling extended intervals between piston overhauls. Designed for operational convenience, NAUTILUS LS II also offers easy handling and dependable performance in demanding marine environments.



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### PHYSICAL-CHEMICAL CHARACTERISTICS

NAUTILUS	METHOD	LS II
SAE Grade		50
Density at 15°C, g/cm <sup>3</sup>	ASTM D4052	0.919
Viscosity, Kinematic (cSt) 40°C	ASTM D445	225.0
Viscosity, Kinematic (cSt) 100°C	ASTM D445	19.5
Viscosity index	ASTM D2270	97
Flash point, COC, °C	ASTM D92	248
Pour point, °C	ASTM D97	-12
TBN, mgKOH/g	ASTM D2896	40

The above mentioned characteristics represent mean values.

### STORAGE

All packages must be stored in covered, well-ventilated areas. If outdoor storage cannot be avoided, barrels must be placed horizontally to prevent water ingress and to protect labels and markings from damage. Products must not be stored at temperatures above 60 °C and must not be exposed to direct sunlight, freezing conditions, or extreme temperature fluctuations.



### HEALTH & SAFETY

This product is not considered to pose significant risks to health or safety when used as intended and in accordance with recommended personal hygiene practices. It must not be applied for purposes other than those for which it has been formulated. For detailed guidance on safe handling and use, refer to the Safety Data Sheet (SDS).



### USED OILS

Used lubricants must be collected at designated collection points to prevent environmental contamination. They must not be mixed with solvents, brake fluids, or antifreeze.

