cyclon® ENGINEERED TO PERFORM

TECHNICAL PRODUCT SHEET

NAUTILUS HEAVY SAE 50

DESCRIPTION

NAUTILUS HEAVY is a premium quality, highly alkaline cylinder oil, designed for low-speed crosshead engines running on high sulfur heavy fuel oils (HSHFO). It is specifically blended with very high quality hydrotreated base stocks and advanced additive technology. It protects engines subject to cold corrosion by providing excellent ring wear protection, liner surface corrosion protection, elevated levels of engine cleanliness and, as a result, facilitates the prolongation of the engine`s life cycle.

APPLICATIONS

NAUTILUS HEAVY is suitable for the cylinder lubrication of large, low-speed marine diesel engines running on residual heavy fuels and operating under conditions of slow steaming (i.e. high stress, long strokes, low loads), in particular. NAUTILUS HEAVY is intended to battle cold corrosion effects and is suitable for 2011 Tier II powertrains and/or for vessels fitted with exhaust gas after-treatment systems. It should be used in accordance with OEM recommendations, and with a wide range of fuels with sulfur content typically up to 0.5- 2.0%. Applications where the sulfur level is below 1.0% require special consideration and the manufacturers' recommendations should be followed.

SPECIFICATIONS

Everllence ES Category I (NOL)
Mitsubishi

WinGD (NOL)

PROPERTIES

NAUTILUS HEAVY provides outstanding neutralization of acids generated during fuel combustion, ensuring robust engine protection under severe operating conditions. Its exceptional detergent properties safeguard the oil system in the event of accidental combustion-residue leakage, while enhanced boundary lubrication delivers strong wear protection. With outstanding thermal and oxidation stability combined with excellent detergency, NAUTILUS HEAVY ensures reliable, long-lasting performance in demanding marine applications.

BENEFITS

NAUTILUS HEAVY minimizes corrosive wear, helping prolong engine life and reduce maintenance costs. It provides exceptional engine cleanliness with minimal deposits on the piston, piston rings, ring grooves and cylinder ports. By preventing scuffing and reducing liner and ring wear, it supports extended overhaul intervals. With excellent deposit control that enables operation at optimized feed rates, NAUTILUS HEAVY ensures reliable, efficient performance in demanding marine engine applications.

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PHYSICAL-CHEMICAL CHARACTERISTICS

NAUTILUS	METHOD	HEAVY
SAE Grade		50
Density at 15°C, g/cm^3	ASTM D4052	0.930
Viscosity, Kinematic (cSt) 40°C	ASTM D445	216.0
Viscosity, Kinematic (cSt) 100°C	ASTM D445	19.5
Viscosity index	ASTM D2270	101
Flash point, COC, °C	ASTM D92	249
Pour point, °C	ASTM D97	-12
TBN, mgKOH/g	ASTM D2896	70

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.