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TECHNICAL PRODUCT SHEET

NAUTILUS HEAVY XT 140 SAE 50

DESCRIPTION

NAUTILUS HEAVY XT 140 is a top-tier, highly alkaline cylinder oil formulated for low-speed crosshead engines operating on high sulfur heavy fuel oils (HSHFO). It is made using premium hydrotreated base oils and cutting-edge additive technology. This oil offers superior protection against cold corrosion, safeguarding against ring wear and liner surface corrosion. It also promotes exceptional engine cleanliness, helping to extend the engine's life cycle and overall performance.

APPLICATIONS

NAUTILUS HEAVY XT 140 is designed for cylinder lubrication in large, super long-stroke, low-speed marine diesel engines using residual medium and heavy fuels with sulfur content above 1.5%. It is particularly well-suited for engines operating under slow steaming conditions, characterized by high stress, long strokes, and low loads. Specifically formulated to combat cold corrosion, it is compatible with 2011 Tier II powertrains and vessels equipped with exhaust gas after-treatment systems. Usage should follow OEM guidelines. NAUTILUS HEAVY XT 140 also meets the standards set by MAN Energy Solutions and WinGD.

SPECIFICATIONS

Everllence ES (NOL)
Mitsubishi

WinGD

PROPERTIES

NAUTILUS HEAVY XT 140 delivers superior boundary lubrication, providing enhanced protection against wear under demanding operating conditions. It offers excellent neutralization of acids produced during fuel combustion, supporting long-term engine durability. With exceptional thermal and oxidation stability combined with strong detergency, it maintains clean engine surfaces and consistent performance. Its remarkable detergent properties also protect the oil system in the event of accidental combustion-residue leakage, ensuring reliable operation in severe marine environments.

BENEFITS

NAUTILUS HEAVY XT 140 prevents scuffing and minimizes liner and ring wear, supporting longer intervals between overhauls. Its superior deposit control enables operation at optimized feed rates, while excellent engine cleanliness ensures almost zero deposits on the piston, piston rings, ring grooves and cylinder ports. By reducing corrosive wear, it lowers maintenance costs and contributes to prolonged engine life, ensuring reliable performance under demanding marine operating conditions.

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PHYSICAL-CHEMICAL CHARACTERISTICS

NAUTILUS	METHOD	HEAVY XT 140
SAE Grade		50
Density at 15°C, g/cm^3	ASTM D4052	0.935
Viscosity, Kinematic (cSt) 40°C	ASTM D445	221.0
Viscosity, Kinematic (cSt) 100°C	ASTM D445	20.0
Viscosity index	ASTM D2270	104
Flash point, COC, °C	ASTM D92	248
Pour point, °C	ASTM D97	-15
TBN, mgKOH/g	ASTM D2896	140

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.