



MARINE

NAUTILUS MEDIUM



DESCRIPTION

NAUTILUS MEDIUM is a premium quality cylinder oil of average alkalinity levels, designed for low speed crosshead diesel engines that use residual fuel of a wide range of sulfur content. It has been developed for highly rated marine crosshead engines operating under high pressures and elevated temperatures. Provides superior ring and liner wear protection and excellent piston cleanliness, helping the engine's life prolongation.

APPLICATIONS

NAUTILUS MEDIUM is suitable for cylinder lubrication of highly rated low speed crosshead marine diesel engines operating under high pressure and high temperature conditions, burning residual fuel of sulfur content 1,0%-3,0%. It demonstrates excellent performance in earlier engine designs and during slow speed steaming operations. For applications where the sulfur content is below 1,0% it the use of NAUTILUS LS is recommended. Always follow the manufacturers' regarding the running-in of new rings and liners as well as the appropriate feed rates.

CHARACTERISTICS-BENEFITS

CHARACTERISTICS	BENEFITS
Outstanding neutralisation of acids resulting from fuel combustion.	Maximum protection from adhesive and corrosive wear, prolongation of engine's life, reduced maintenance costs.
Exceptional detergent properties, protects oil system from accidental combustion of residue leakage.	Exceptional engine cleanliness, minimal deposits on piston, piston rings, ring grooves and cylinder ports.
Enhanced boundary lubrication properties, protection against wear.	A lubricant protecting film is permanently retained on engine parts, allowing extended periods between piston overhauls.
Absolutely homogeneous lubricant.	Stable in long-term storage.
Suitable for fuel of wide range in sulfur content.	It may be used with a wide range of fuels of different sulfur content.

PHYSICAL-CHEMICAL CHARACTERISTICS

NAUTILUS MEDIUM	METHOD	
SAE		50
Density at 15°C, g/cm ³	ASTM D1298	0,918
Viscosity, Kinematic, (cSt) 40 °C	ASTM D445	225
Viscosity, Kinematic, (cSt) 100 °C	ASTM D445	19,5
Viscosity index	ASTM D2270	98
Pour point, °C	ASTM D97	-9
Base number, mgrKOH/g (TBN)	ASTM D2896	55
Flash point, COC, °C	ASTM D92	250

The abovementioned characteristics represent mean values.

SPECIFICATIONS

MAN B&W (NOL)