

PRODUCT OVERVIEW

NS SYS 305 is a BN 5, SAE 30 system oil for the crankcase and circulation systems of low-speed two-stroke crosshead marine diesel engines. Its detergent and anti-oxidant additive system keeps crankcases, piston undercrowns and oil cooling galleries clean, while a measured alkaline reserve neutralises the combustion acids that leak past the piston rod stuffing box. Highly refined base oils deliver strong oxidation resistance, rapid water separation and the load-carrying capacity required where one charge also serves hydraulics, gearing and stern tubes.

APPLICATIONS

Recommended for the crankcase, bearing and piston-cooling circuits of low-speed two-stroke crosshead marine diesel engines, including electronically controlled designs that draw hydraulic servo oil from the system charge. Also suitable for oil-lubricated stern tubes, turbochargers, reduction gears, deck machinery and other ancillary equipment calling for an SAE 30 oil. Not for use in trunk piston engines, which require a higher BN crankcase oil.

SPECIFICATIONS

 Meets or exceeds: **Everlence (MAN ES) NOL | WinGD | JEC (UE Engines) | MHI-MME**

CHARACTERISTICS*

PROPERTY	TEST METHOD	VALUE
Density at 15°C	ASTM D4052	0.891 g/cm ³
Kinematic Viscosity @ 40°C	ASTM D445	105 cSt
Kinematic Viscosity @ 100°C	ASTM D445	11.6 cSt
Viscosity Index	ASTM D2270	98
Pour Point	ASTM D97	-15 °C
Base Number	ASTM D2896	5 mgKOH/g
Flash Point (COC)	ASTM D92	240 °C
Load Carrying Capacity, FZG	CEC-L-07-95	Fail stage 11

*The specifications above are for illustrative purposes and communicated for information only.

PROPERTIES & BENEFITS

Acid Neutralization

A BN 5 alkaline reserve neutralises the cylinder oil and combustion acids passing the stuffing box, protecting bearings and white metal from corrosive attack.

Water Separation

Rapid demulsibility and clean centrifuging release water and insolubles from the charge, protecting the system after condensate or cooling water ingress.

Crankcase Cleanliness

Balanced detergency keeps crankcases, piston undercrowns and oil cooling galleries free of carbon deposits, sustaining heat transfer and oil flow.

Load Carrying Capacity

FZG fail load stage 11, with strong anti-foam and air release, supports use in reduction gears, stern tubes and engine hydraulic servo systems.