

Opt-Max Shieldguard 5020

MARINE CYLINDER OIL

Cylinder Lubricant for Low-speed Crosshead Diesel Engines

Opt-Max Shieldguard 5020 is a high performance marine cylinder oil designed for use with low sulphur distillate fuels.



Product Description

Opt-Max Shieldguard 5020 is a high performance marine cylinder lubricant designed for use in low-speed crosshead marine diesel engines operating on low sulphur distillate fuels such as marine gas oil or liquefied natural gas. It has been formulated to meet the new sulphur Emission Control Areas (SECA) requirements without compromising on engine performance and protection.

Features and Benefits

- Enhanced detergents and dispersant capabilities to clean and transport potential deposit.
- Excellent thermal and oxidation stability to reduce lube oil degradation.
- Enhanced additive treat rate and formulation to prevent piston crown deposits build up and consequential liner polishing and/or scuffing.
- Good lubrication properties that help maintain an oil film under severe, high load conditions, thereby reducing frictional wear and preventing scuffing of liners, pistons and rings.
- Good anti-wear properties that help protect against excessive cylinder liner and piston ring wear, thus allowing prolonged service intervals.

Applications

- Opt-Max Shieldguard 5020 is recommended for low-speed crosshead diesel engines operating on low sulphur fuels at varying power outputs and thermal loads, including those in continuous operations within ECA zones.
- During low feed rate operations, it is crucial that the actual cylinder and piston rings conditions are inspected on a regular basis. Please refer to the latest OEM's recommended cylinder oil feed rate.
- Opt-Max Shieldguard 5020 have meet the requirements of many major engine manufacturers, including MAN B&W and Wärtsilä.

Specifications

Product Properties		Opt-Max Shieldguard 5020	Testing Methods
SAE Grade	-	50	-
Kinematic Viscosity (100°C)	mm ² /s		ASTM D445
Density at 15°C	kg/m ³		ASTM D4052
Density at 20°C	kg/m ³		ASTM D4052
TBN	mgKOH/g	20	ASTM D2896
Viscosity Index	-		ASTM D2270
Flash Point	°C		ASTM D92
Pour Point	°C		ASTM D97

* Above product typical properties are indicative and subject to change without prior notice

Storage and Handling

- All storage equipment, tanks, pipes, valves and etc. apparatus has to be cleaned thoroughly and inspected to be clean for use before transferring or transporting Opt-Max Shieldguard 5020.
- Opt-Max Shieldguard 5020 must be stored in dedicated storage tanks/equipment and it is recommended to be stored in an indoor controlled environment.
- Storage tanks/equipment must be waterproof, mist-proof and free from other mechanical particles.
- Opt-Max Shieldguard 5020 must be clearly labelled properly during the entire transportation process to prevent the risk of mixing with other petrol-chemical product.

Health & Safety

Opt-Max Shieldguard 5020 is unlikely to present any significant health or safety hazard when properly used in the recommended application. This product must always be handled with care, particularly avoiding skin contact. For further guidance on Product Health & Safety refer to the appropriate Opt-Max Shieldguard 5020 Material Safety Data Sheet.