petrogulf® marine

Product Data Sheet

PETROGULF MARINE CYLINDER OIL XTRA 5040

High-Performance Marine Cylinder Oil for Low-Sulphur Fuels | SAE 50 | BN 40

PRODUCT DESCRIPTION

Petrogulf Marine Cylinder Oil XTRA 5040 is a high-performance marine cylinder lubricant developed specifically for the latest generation of low-speed, crosshead marine diesel engines (WinGD & MAN ES Category II) operating on very low sulphur fuel oil (VLSFO ≤0.50%). It is specially engineered to combat sludge formation and deposit build-up associated with newer low-sulphur fuel blends, while maintaining superior wear protection and cleanliness of the piston and liner system under high pressures and elevated temperatures.

Formulated with advanced detergents and dispersants, XTRA 5040 helps reduce ring land and crown deposits, improve piston ring pack cleanliness, and extend component life — even in the more severe operating conditions associated with de-rated and modern high-efficiency engines.

FEATURES & BENEFITS

- Minimizes the formation of sludge and carbonaceous deposits in the ring pack and on piston lands.
- Keeps piston rings and liners clean, enabling longer running hours between inspections.
- Offers excellent protection against adhesive and corrosive wear, especially under higher BMEP and thermal stress.
- Designed to address the low corrosive but high deposit-forming nature of VLSFO.
- Compatible with all standard elastomer seal materials used in marine diesel engines.
- Delivers deposit control comparable to higher-BN oils, maintaining piston cleanliness over long intervals.Enables sipl fied onboard lubricant management by minimizing the need for switching oils during operation on compliant fuels.

APPLICATIONS

- Recommended for use in modern 2-stroke low-speed crosshead marine diesel engines operating on VLSFO (<0.5% S) in compliance with MARPOL Annex VI Regulation 14.
- Especially suitable for engines operating under de-rated conditions and at higher BMEP where deposit control is critical.
- Feed rates should follow OEM recommendations, with potential increases during running-in or when excessive deposits are observed.
- Suited for continuous operation with very low sulphur fuel oil (VLSFO ≤0.5%), as per IMO 2020 sulphur cap.
- Can support dual-fuel and biofuel readiness strategies in line with evolving environmental regulations (if applicable in your future portfolio).

TYPICAL CHARACTERISTIC

Properties	TEST METHOD	TYPICAL VALUE
SAE Grade		**50**
Base Number (BN), mg KOH/g	ASTM D2896	40
Kinematic Viscosity @100°C, cSt	ASTM D7042	20.4
Viscosity Index	ASTM D7042	>95
Density @15°C, kg/L	ASTM D4052	0.935
Flash Point (COC), °C	ASTM D92	>220
Pour Point, °C	ASTM D97	-6
Foaming Characteristics	ASTM D892	NIL
Appearance	Visual	Clear & Bright
Product Code		33500090003

These typical values represent current production and may vary slightly with future formulations.

HANDLING, HEALTH AND SAFETY

- In normal conditions of use, this lubricant presents no particular toxic hazard. All lubricants, of any kind should be handled with great care, particularly avoiding any contact with skin.
- Prevent any splashing, and keep away from combustible materials. Store under cover and away from any risk of pollution. Dispose off the used oil correctly; don't pour down drains, into watercourses or the soil.
- Petro Gulf will not accept liability if the product is used other than in manner or with the precautions, or for the purpose specified. Before the product is used other than directed advice should be obtained from Petro Gulf local office.

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