

ORSEA CYLCARE ECA 50S

Marine Cylinder Oil

Orsea Cylcare ECA 50S is a specially formulated extremely high performing Marine Cylinder Lubricant (MCL) for use in all generations of two stroke low speed crosshead diesel engines including the very latest super long stroke models when operating in MARPOL Annex VI Emission Control Areas (ECA).

The content of sulphur in marine fuel is limited when operating in ECAs to <0.10%wt (except when operating with an exhaust gas SO₂ scrubber). When burning 0.10%wt sulphur fuel the continued operation on high BN cylinder oil is inappropriate. The excess BN additive of the standard MCL may result in crown land deposit build-up and consequent bore polishing.

Orsea Cylcare ECA 50S is rebalanced cylinder oil with a reduced BN additive system combined with an advanced new marine detergency additive technology. Orsea Cylcare ECA 50S minimises excess piston crown deposits, neutralizes condensing acids and ensures that the liners and ring pack remain clean with free ring movement and extended Time Between Overhauls (TBO).

Orsea Cylcare ECA 50S offers a safety margin of performance with sufficient BN to scavenge and neutralize any acid condensation on liner walls. This lubricant is suitable for both MGO and new low sulphur HFO being introduced as distillate substitutes. It is strongly recommended that the suitability of non MGO fuel products is checked with the fuel supplier and engine maker before using.

Benefits

- Outstanding detergency capability minimizes deposits on critical parts viz. pistons, piston rings, ring grooves and cylinder ports.
- Low BN for residual acid scavenging and neutralization capability whilst achieving OEM's specified residual BN reserve in scrape down oil.
- Enhanced anti-wear property minimizes piston ring & cylinder wear leading to reduced maintenance costs.
- Compliant with MARPOL Annex VI Regulation 14 for marine fuels with <0.10%wt Sulphur.
- Excellent thermo-oxidative stability reducing deposit and sludge formation.

Applications

- Cylinder lubrication of all generations including the latest MAN Mk 8.2 to Mk 9 & G type engines and Wärtsilä RT-Flex & W-X engines operating on very low sulphur fuels, <0.10%wt and natural gas.
- The recommended manufacturers feed rate should be maintained. It is highly recommended to inspect the liners via a scavenge port inspection upon initial and subsequent switches to Orsea Cylcare ECA 50S.
- Changeover to Orsea Cylcare ECA 50S should be undertaken, upon entering an ECA, at the next daily top-up of the cylinder oil day tank. When changing back to high sulphur fuel oil, upon leaving an ECA, the cylinder oil should be switched on the day prior, during the daily top-up of the cylinder oil day tank.

Specifications

ORSEA CYLCARE ECA 50S		
Typical properties		
Test parameters	Method	SAE 50
Viscosity @ 100 °C, cSt	ASTM D 445	19.5
Viscosity Index	ASTM D 2270	>95
Detergency	Panel Coker	Exceeds Industry Standards
Flash Point, °C	ASTM D 92	>200
Pour Point, °C	ASTM D 97	-12
Density @ 15°C, Kg/m3	ASTM D 1298	905

Above characteristics are mean values given as information.
They do not constitute a specification.

Health and safety

This lubricant is unlikely to produce any significant health or safety hazard when used in the application it has been designed for and according to the recommendations provided in the Material Safety Data Sheet. MSDS are available upon request through your sales advisor.

When disposing of used oil, please observe all current regulations and protect the environment.