



# PRODUCT DATA SHEET

## GulfSea Cylcare 50100 (H, S, X)

Marine Cylinder Oil specially designed for the latest range of modern Low Speed 2-stroke Marine Diesel Engines using High Sulphur Heavy Fuel Oil (HFO)

### Product Description

**GulfSea Cylcare 50100** is a superior quality Marine Cylinder Lubricant (MCL) designed for the very latest modern low speed crosshead diesel engines operating on residual fuels having sulphur content in excess of 1%. This oil is specially developed for diesel engines operating with higher brake mean effective pressures (bmep) longest stroke length and Tier II compliance. This oil is available in SAE 50 viscosity grade with a BN (Base Number) of 100. This oil possesses outstanding acid neutralizing capability and provides excellent engine cleanliness and durability.

### Features & Benefits

- Outstanding acid neutralizing capability helps to prolong the life of engine components.
- Higher BN for increased acid neutralization capability and OEM's specified residual BN reserve in scrape down oil.
- Superior detergency minimizes deposits on critical parts viz. pistons, piston rings, ring grooves and cylinder ports.
- Enhanced anti-wear property minimizes piston ring & cylinder wear leading to reduced maintenance costs.
- Good compatibility with all normal seal materials.

### Applications

- Recommended for cylinder lubrication of MAN Mk 8.2 and Mk 9 engines and Wartsila RT-Flex & W-X engines especially for the more severe characteristics of de-rated engines adjusted to operate inside the power/speed envelope for the engine range and using residual fuels with sulphur contents in excess of 1%.
- The feed rates recommended by the manufacturer should be maintained as the minimum. Higher feed rates may be required during running-in.
- Periodic inspection of liner condition and scrape down analysis is essential to ensure continuous low wear rates. Switching from 70BN to 100BN cylinder oil is recommended where there is evidence of cold corrosion or when using the correct cylinder oil feed rate the residual BN in the scrape down oil is continuously lower than the manufacturers limit (normally a minimum residual 20BN)

### Typical Properties

| GulfSea Cylcare 50100 (H, S, X)* |             |                |
|----------------------------------|-------------|----------------|
| Typical properties               | SAE Grade   | 50             |
|                                  | BN          | 100            |
| Test Parameters                  | ASTM Method | Typical Values |
| Viscosity @ 100 °C, cSt          | D 445       | 19.3           |
| Viscosity Index                  | D 2270      | 97             |
| Flash Point, °C                  | D 92        | 250            |
| Pour Point, °C                   | D 97        | -9             |
| BN, mg KOH/g                     | D 2896      | 100            |
| Density @ 15 °C, kg/l            | D 1298      | 0.954          |

\*Products will be suffixed with the H, S or X identifier (e.g., Cylcare 50100H, Cylcare 50100S or Cylcare 50100X), owing to the regional availability. However, the products with different identifier are miscible and compatible.

March 2020