



## Technical Bulletin

# GulfSea Cylcare 50100

The product GulfSea Cylcare 50100 has been developed to meet the very latest demands facing modern slow speed diesel engines running on residual fuels having sulphur contents in excess of 1%.

**H**igher BN Cylinder oils are now being mandated by the major OEM's Wärtsilä and MAN to meet operational requirements of the latest long stroke slow speed engine designs delivering high brake mean effective pressures (BMEP) and meeting Tier II compliance. GulfSea Cylcare 50100 meets all these engine design requirements and is approved by MAN.

Additionally, continuous reduced engine loadings brought about by slow steaming detrimentally affects slow speed engines by creating the environment of lower cylinder wall temperatures encouraging condensation of exhaust gases and the precipitation of Sulphuric acid to the cylinder liner. Sulphuric acid causes aggressive and if left unchecked, extensive corrosive wear to the cylinder material creating the phenomenon known as cold corrosion. This oil is specially designed for diesel engines operating with higher BMEP longest stroke length and Tier II compliance. The product is available in SAE 50 viscosity grade with a BN (Base Number) of 100.

GulfSea Cylcare 50100 possesses outstanding acid neutralizing capability and provides excellent engine cleanliness and durability especially where slow steaming or otherwise cold corrosion environment persists.

### 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.

Gulf Oil Marine has in place a continuous product development program. Our latest cylinder oil technology used in GulfSea Cylcare 50100 was developed and proven at sea.

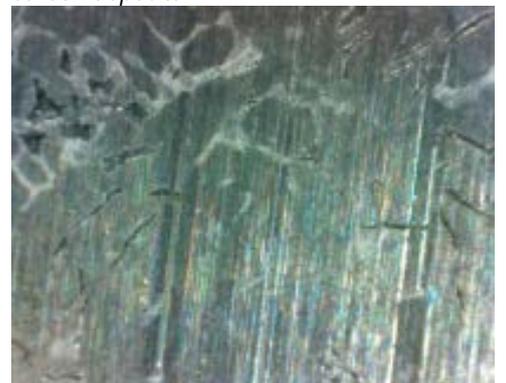
In early 2014 we contracted two additional new vessels fitted with Wärtsilä and MAN slow speed engines to operate primarily as long term cylinder oil test ships.



*Excellent detergency and outstanding acid neutralizing capability*



*Excellent piston ring condition with minimal carbon deposits*



*Good anti-wear properties with minimal cylinder wear*