



# PRODUCT DATA SHEET

## GulfSea Cylcare DCA 5040 (H, S, X)

Marine cylinder oil is formulated for low sulphur residual fuel blends and distillates.

### Product Description

**GulfSea Cylcare DCA 5040** has been developed to cope with sludge and deposit forming tendencies of certain blended fuels. These fuels have lower corrosion potential but may tend to form more deposits. The cylinder oil is formulated to have enhanced detergency properties and excellent dispersancy, wear and oxidation resistance properties. **GulfSea Cylcare DCA 5040** is approved for the latest 2-stroke low speed crosshead engines operating at higher BMEP and liner temperatures.

### Features & Benefits

- Advanced detergency properties minimise deposits and the formation of sludges, protecting against piston ring stick and ring groove deposits.
- Lower ash forming formulation, avoids crown land deposit formation, even when running on very low sulphur fuels.
- Excellent anti-wear properties similar to the characteristic low cylinder liner wear of the GulfSea Cylcare range of cylinder oils.
- Tested and compatible with all standard seal materials.
- High levels of ring pack cleanliness and anti-wear enables extended time between piston overhauls.

### Applications

- Cylinder lubrication of the latest, highly rated low speed crosshead marine diesel engines operating on blended residual fuels and distillates with sulphur below 0.50%.
- The feed rates as recommended by the manufacturer should be maintained and in accordance with engine operating conditions. Higher feed rates may be required for running-in.
- GulfSea Cylcare is suitable for use in vessels running on MARPOL Annex VI Regulation 14 compliant fuels with maximum sulphur of 0.50%.

### Typical Properties

| GulfSea Cylcare DCA 5040 (H, S, X)* |             |                |
|-------------------------------------|-------------|----------------|
| Typical properties                  | SAE Grade   | 50             |
|                                     | BN          | 40             |
| Test Parameters                     | ASTM Method | Typical Values |
| Viscosity @ 100 °C, cSt             | D 445       | 19.9           |
| Viscosity Index                     | D 2270      | 106            |
| Flash Point, °C                     | D 92        | 274            |
| Pour Point, °C                      | D 97        | -18            |
| BN, mg KOH/g                        | D 2896      | 40             |
| Density @ 15 °C, kg/l               | D 1298      | 0.916          |

\*Products will be suffixed with the H, S or X identifier (e.g., Cylcare 5040H, Cylcare 5040S or Cylcare 5040X), owing to the regional availability. However, the products with different identifier are miscible and compatible.

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