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| **Athen Marine Cylinder Oil 5040** |

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

**Product Description**

**Athen Marine Cyl Oil 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. Athen Marine Cyl Oil 5040 is approved for the latest 2-stroke low speed crosshead engines operating at higher BMEP and liner temperatures.

**Features & Benefits**

* Advanced detergency properties minimize 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 of very low sulphur fuels.
* Excellent anti-wear properties similar to the characteristic low cylinder liner wear of the Athens Marine Cylinder 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.
* Athen Marine Cylinder Oil is suitable for use in vessels running on MARPOL Annex VI Regulation 14 compliant fuels with maximum sulphur of 0.50%.

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**Typical Properties**

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| **Athen Marine Cylinder Oil 5040** | | |
| **Typical properties** | **SAE Grade** | **50** |
| **BN** | **40** |
| **Test Parameters** | **ASTM Method** | **Typical Values** |
| Viscosity @ 100ºC, cSt | D 445 | 19.9 |
| Viscosity Index | D 2270 | 106 |
| Flash Point, ºC | D 92 | 274 |
| Pour Point, ºC | D 97 | -18 |
| BN, mg KOH/g | D 2896 | 40 |
| Density @ 15ºC, kg/l | D 1298 | 0.916 |

“*Data provided in this PDS is based on standard tests under laboratory conditions and is indicative only. Minor variations which do not affect product performance are expected in normal manufacturing. This product should not be used for any purpose other than those expressly set out in this PDS”*

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