

ExxonMobil 825 Mobil SHC 800 Series

Category : Fluid , Lubricant

Material Notes:

Mobil SHC 800 Series turbine oils are designed specifically to meet the needs of the most severe industrial gas turbine applications with a nominal 10,000 hour TOST life. They are recommended for the lubrication of land-based gas turbines, particularly units under 3,000 hp used as standby power units, and in some types of total energy and combined cycle (gas/steam) systems. This innovative product family is formulated from wax-free synthesized hydrocarbons and a unique additive system. This formula provides outstanding low temperature fluidity and exceptional resistance to degradation at high temperatures well beyond the capabilities of premium quality mineral oils. Mobil SHC 800 Series lubricants also provide excellent antiwear properties as well as protection against rust and corrosion plus good air release performance and resistance to foaming. These characteristics provide superior resistance to thermal/oxidative degradation during the heat soaking period after shutdown and permit rapid oil circulation at low temperatures during start-up. Degradation resistance is a key attribute in avoiding harmful deposits that can interfere with lubrication supply to the bearings or foul critical servo-valves. This is a particular issue when gas turbines are running in cycling mode and experience multiple thermal stress cycles. Since low temperature fluidity and high viscosity index are inherent characteristics of the fluids, they do not change in service as a result of mechanical shearing or repeated cycling from low to high temperatures. Mobil SHC 800 Series oils are fully compatible with mineral oils, but admixture will detract from its superior performance properties. These progressive products, which have been proven in very severe gas turbine service over many years, are preferred by users because of their outstanding stability and equipment protection under the most severe, high temperature conditions, and because of their easy start-up at low ambient temperature. This performance results in excellent equipment reliability and minimized downtime. Mobil SHC 800 Series turbine oils are designed specifically to meet the needs of the most severe industrial gas turbine applications and ancillary equipment. Specific applications include: Severe stationary gas turbine applications, particularly units under 3,000hp, for stand-by power generation; Industrial gas turbines operating in low ambient and remote areas; Total energy systems

Order this product through the following link:

http://www.lookpolymers.com/polymer_ExxonMobil-825-Mobil-SHC-800-Series.php

| Physical Properties | Metric | English | Comments |
|--------------------------------------|------------|------------|--|
| Specific Gravity | 0.830 g/cc | 0.830 g/cc | 15°C; ASTM D4052 |
| Viscosity Measurement | 145 | 145 | Index; ASTM D2270 |
| Kinematic Viscosity at 40°C (104°F) | 43.9 cSt | 43.9 cSt | ASTM D445 |
| Kinematic Viscosity at 100°C (212°F) | 7.9 cSt | 7.9 cSt | ASTM D445 |
| Oxidative Stability | 9500 hour | 9500 hour | Turbine Oil Stability Test (TOST); ASTM D943 |

| Thermal Properties | Metric | English | Comments |
|--------------------|----------|----------|----------|
| Pour Point | -45.0 °C | -49.0 °F | ASTM D97 |
| Flash Point | 248 °C | 478 °F | ASTM D92 |

| Descriptive Properties | Value | Comments |
|----------------------------------|-------|----------|
| Air Release, ASTM D3427, minutes | 1 | @ 50°C |
| Foam Sequence I, ASTM D969 | 20/0 | |

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