

ExxonMobil 460 Mobilith SHC Series

Category : Fluid , Lubricant , Lithium Gellant

Material Notes:

Mobilith SHC Series greases are supreme performance products designed for a wide variety of applications at extremes of temperature. They combine the unique features of synthetic base fluids with those of a high quality lithium complex thickener. The wax-free nature of synthetic fluids and the low coefficient of traction (compared with mineral oils), provide excellent low temperature pumpability and very low starting and running torque. These products offer the potential for energy savings and can reduce operating temperatures in the load zone of spherical roller and ball bearings. The lithium complex thickener contributes excellent adhesion, structural stability and resistance to water. The greases have a high level of chemical stability and are formulated with special additive combinations to provide excellent protection against wear, rust and corrosion at high and low temperatures. Mobilith SHC Series greases are available in six grades, varying in base oil viscosity from ISO VG 100 to 1500 and in NLGI grade from 2 to 00. The Mobilith SHC Series of greases is used in the widest range of applications, and a broad range of operating temperatures, depending on grade. They are used not only in numerous industrial applications, but also find significant usage in automotive, marine and aerospace sectors. Mobilith SHC Series greases have become the products of choice for many users, in many industries worldwide. Their reputation is based on their exceptional quality, reliability, versatility and the performance benefits they deliver.

Application Considerations: While Mobilith SHC Series greases are compatible with most mineral oil based products, admixture may detract from their performance. Consequently it is recommended that before changing a system to one of the Mobilith SHC Series, it should be thoroughly cleaned out to achieve the maximum performance benefits. While the Mobilith SHC Series greases share many performance benefits, their applications are best described in terms of each product grade:

Mobilith SHC 100 is an antiwear grease primarily recommended for higher speed applications such as electric motors, where reduced friction, low wear and long service life are required. It is an NLGI 2 Grade / ISO VG 100 grease with a synthetic base fluid. Its operating temperature range is -50° C to 150° C; Mobilith SHC 220 is a multi-purpose, extreme pressure grease recommended for heavy-duty automotive and industrial applications. It uses an ISO VG 220 synthetic fluid and although it is an NLGI 2 Grade product, it has the low temperature pumpability of most NLGI 0 Grade mineral oil based greases. Mobilith SHC 220 has a recommended operating temperature range of -40° C to 150° C; Mobilith SHC 460 is an NLGI 1.5 Grade grease with ISO VG 460 synthetic base and is an extreme pressure grease recommended for tough industrial and marine applications. It provides outstanding bearing protection under heavy loads at low-to-moderate speeds and in applications where water resistance is a critical factor. Mobilith SHC 460 has demonstrated outstanding performance in steel mills, paper mills and marine applications. The recommended operating temperature range is -40° C to 150°C; Mobilith SHC 1500 is an NLGI 1 Grade / ISO VG 1500 grease with a synthetic base fluid. It is intended for use in plain and rolling element bearings operating at extremely slow speeds, under heavy loads and high temperatures. Mobilith SHC 1500 has a recommended operating temperature range of -20 to 150 ° C with appropriate relubrication intervals. Continuous lubrication with Mobilith SHC 1500 has been very effective in prolonging bearing life in a severe roll press application. Mobilith SHC 1500 has also provided excellent performance in rotary kiln roller bearings and in slag transfer rail car bearings; Mobilith SHC 007 is an NLGI 00 Grade / ISO VG 460 grease with a synthetic base fluid; it has a recommended operating temperature range of -50° C to 150 ° C with appro

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Physical Properties	Metric	English	Comments
Kinematic Viscosity at 40°C (104°F)	460 cSt	460 cSt	ASTM D445

Mechanical Properties	Metric	English	Comments
Four Ball Extreme Pressure, Weld Load	250 kg	551 lb (mass)	ASTM D2596
Penetration	305	305	Worked, 25°C; ASTM D217
Timken Test	24900 g	55.0 lb	

Thermal Properties	Metric	English	Comments
Dropping Point	255 °C	491 °F	ASTM D2265

Descriptive Properties	Value	Comments
Color	red	
Soap/Thickener Type	lithium complex	
US Steel Mobility @ -18°C	5	
Water Washout, ASTM D1264, wt%	3	@ 79°C

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