

Mobilith SHC 460

Synthetic Grease

Product Description

La grasa Mobilith SHC 460 es un producto de alto rendimiento diseñado para una amplia variedad de aplicaciones a temperaturas extremas. Combina las características únicas de un fluido base sintético polialfaolefina (PAO) con los de un espesante complejo de litio de alta calidad. La naturaleza libre de cera del aceite base PAO y el bajo coeficiente de tracción (en comparación con los aceites minerales), proporcionan una excelente capacidad de bombeo a baja temperatura y un par de arranque y funcionamiento muy bajo. Este producto ofrece el potencial de ahorro de energía y puede reducir las temperaturas de funcionamiento en la zona de carga de rodamientos de elementos rodantes. El espesante complejo de litio aporta una excelente adherencia, estabilidad estructural y resistencia al agua. La grasa tiene un alto nivel de estabilidad química y está formulada con combinaciones de aditivos especiales para proporcionar una excelente protección contra el desgaste, la oxidación y la corrosión a altas y bajas temperaturas. La grasa Mobilith SHC 460 es NLGI Grado 1.5 y tiene una viscosidad de aceite base de ISO VG 460.

Features & Benefits

The Mobil SHC brand of oils and greases are recognised and appreciated around the world for their innovation and outstanding performance. These molecular design PAO synthetic products, pioneered by ExxonMobil research

scientists, symbolise the continuing commitment to using advanced technology to provide outstanding products. A key factor in the development of Mobilith SHC 460 was the close contact between ExxonMobil scientists and application specialists with key Original Equipment Manufacturers (OEMs) to ensure that the product would provide exceptional performance in the continually evolving industrial equipment designs.

The work with equipment builders has helped confirm the results from ExxonMobil's own laboratory tests showing the exceptional performance of Mobilith SHC 460. These benefits include longer grease life, enhanced bearing protection and bearing life, wide temperature range of application, and the potential for improved mechanical efficiency and energy savings.

To combat high thermal exposure of the oil, ExxonMobil product formulation scientists chose proprietary synthetic base oil for Mobilith SHC 460 because of their exceptional thermal/oxidative resistance potential. Our scientists developed a state-of-the-art lithium complex thickener technology and used specific additives to enhance product performance.

Mobilith SHC 460 offers the following features and potential benefits:

Features

Outstanding high temperature and low temperature performance

Excellent protection against wear, rust and corrosion

Excellent thermal stability and oxidation resistance

Low traction coefficient

Includes high viscosity grades with high VI, no wax basestocks

Outstanding structural stability in the presence of water

Low volatility

Advantages and Potential Benefits

Wide application temperature ranges, with excellent protection at high temperatures and low torque, easy start-up at low temperatures

Reduced downtime and maintenance costs because of reduced wear, rust and corrosion

Extended service life with longer intervals between relubrication and improved bearing life

Potential improved mechanical life and reduced energy consumption

Outstanding protection of slow speed, heavily loaded bearings with good low temperature performance

Retains excellent grease performance in hostile aqueous environments

Helps resist viscosity increase at high temperatures to maximise relubrication intervals and bearing life

Applications

Mobilith SHC 460 is recommended for extended performance in nearly all shipboard grease applications. It provides particularly outstanding bearing protection under heavy loads at low to moderate speeds and in applications where water resistance is a critical factor. It has a recommended operating temperature range of -40°C to 180°C.

While Mobilith SHC 460 grease is compatible with most mineral oil based products, admixture may detract from its performance. Consequently it is recommended that before changing a system to Mobilith SHC 460, the system should be thoroughly cleaned out to achieve the maximum performance benefits.

Health & Safety

Based on available information, this product is not expected to produce adverse effects on health when used for the intended application, following the recommendations provided in the Material Safety Data Sheet (MSDS). MSDSs are available upon request through your sales contract office, or via the Internet on <http://www.exxonmobil.com>. This product should not be used for purposes other than its intended use. If disposing of used product, take care to protect the environment.

Typical Properties	Mobilith SHC 460
NLGI Grade	1.5
Thickener Type	Lithium complex
Color, Visual	Red
Penetration, Worked, 25°C, ASTM D 217	305
Dropping Point, °C, ASTM D 2265	255
Viscosity of Oil, ASTM D 445, cSt @ 40°C	460
Timken OK Load, ASTM D 2509, lb.	70
4-Ball Weld, ASTM D 2596, Load, Kg	250
Water Washout, ASTM D 1264, Loss at 79°C. % wt	3
Rust Protection, ASTM D 6138	0
USSteel Mobility @ -18°C	5

Due to continual product research and development, the information contained herein is subject to change without notification. Typical properties may vary slightly.