Mobil

Mobilgear SHC XMP Series

Gear oils

Description

High performance synthetic Mobilgear SHC XMP series is scheduled for lubrication and protection of gears operating in the harshest conditions. The Mobile Technology PAO base oils (Polyalphaolefins) was selected for its outstanding heat resistance and oxidation resistance, a naturally high viscosity index, excellent low temperature fluidity and consistency of their base oils. Mobilgear SHC XMP help bring an energy gain in the gearings drive thanks to their high viscosity index and low traction coefficient. Their selected additive system protects against wear and against micropitting. With Mobilgear SHC XMP, lubrication of gears and rolling bearings is significantly improved compared to conventional mineral oils. Series Mobilgear SHC XMP provides increased protection against rust and corrosion in applications requiring protection against sea water and acidic water. These products offer a lifetime of exceptional filters even in moderate humidity and exhibit excellent compatibility with ferrous and non ferrous metals at high temperatures.

Mobilgear SHC XMP lubricants are recommended for industrial gears in steel housings equipped with straight teeth, helical or bevel. They are highly recommended for areas subject to micropitting (highly loaded gearboxes with hardened teeth, hardened, ground or having undergone a surface treatment) applications. They can also be used for applications with low temperatures and / or high, or where corrosion may be important.

Because of all of their unique properties, including resistance to micropitting and their performance in severe applications, covering a wide temperature range, the products Mobilgear SHC XMP series enjoy a growing reputation among customers and manufacturers (OEMs) worldwide.

Benefits

The Mobil brand lubricants are part of the line of CHS products that are recognized and appreciated around the world for their innovation and outstanding performance. These synthetic PAO-based molecules, developed by our scientists, symbolize the continuing commitment to using advanced technologies to offer excellent products technologies. One of the key factors in the development of Mobilgear SHC XMP Series was the close collaboration between our researchers and manufacturers to meet the requirements of the new industrial gears.

Our work with equipment builders has helped confirm the results obtained in our laboratory tests have revealed the outstanding performance lubricants Mobilgear SHC XMP, such as the ability to resist micropitting that can occur with applications gear surface-hardened with high loads. This collaboration demonstrates the benefits of balanced performance for the new Mobilgear SHC XMP, including a wide range of operating temperature technology.

To solve the problem of micropitting, our researchers have designed a patented combination of additives that resists wear and protects against micropitting. Our engineers chose oils PAO exclusive synthesis to provide a lifetime of outstanding oil deposit control and resistance to thermal degradation / oxidation or chemical, and a better balance of performance. Thanks to their synthetic base without paraffin, it provides features low temperature fluidity unmatched by mineral products. This is a key benefit for remote applications at low ambient temperatures. The lubricants of the Mobilgear SHC XMP series offer the following advantages:

Specifications	Advantages and Potential Benefits
Excellent protection against micropitting and strong resistance against wear	Extending the life of gears and bearings operating in reduced harshest conditions (load, speed and temperature) reduction untimely stoppages and Maintenance
Strong resistance to high temperature degradation	Extending the life of oil and oil change intervals (reduced consumption and lower maintenance costs)
Low traction coefficient of the synthetic PAO base for better efficiency lubricated body	Reduction of energy consumption and lower operating temperatures

efficiency lubricated body	temperatures
High viscosity index of the base oil and reliability of viscosity versus temperature	Ability to work at both high and low temperatures especially in applications without system heating or cooling
Excellent anti-rust and anti-corrosion properties and very good demulsification	No risk of failure at high temperatures or in the presence of water
	Excellent compatibility with soft metals
Life exceptional filter, even in the presence of water	Less filter changes and reduced maintenance costs
Very good compatibility with traditional materials and mineral oils	Facilitated from many commodities conversion

Applications

- Aeolian units heavily loaded and subjected to shock, material subjected to extreme temperatures fonctionnementt
- Gearboxes for plastic extruders
- Loaded gears in the industries of paper, steel, textile, wood and cement where the requirements in terms of equipment protection are important

Specifications

Mobilgear SHC XMP Series meets or exceeds the requirements of:	**320**	**460**
AGMA 9005-D94-S (for the corresponding viscosity grade)	X	X
DIN 51517-3, 2009-06	X	X

Typical Characteristics

Mobilgear SHC XMP Series	**320**	**460**
ISO grade	320	460
Viscosity, ASTM D 445		
cSt @ 40 ° C	335	460
CSt 100 ° C	38.3	48.7
Viscosity index ASTM D 2270	164	166
Pour Point, ° C, ASTM D 97	-38	-36
Flash Point, ° C, ASTM D 92	242	232
Density at 15.6 ° C kg / l, ASTM D 4052	0.86	0863
FZG micropitting, FVA Proc No. 54,		
Bearing damage	10	10
GFT class	High	High
FZG Scuffing, DIN 51345 (mod) A/16.6/90, Fail Course	14 +	14 +
4 Ball Wear Test, ASTM D 4172, mm (Mod 1,800 RPM, 20 kg, 54 ° C, 60 minutes)	0.25	0.25
Rust Protection, ASTM D665, Seawater	Pass	Pass
Water separation, ASTM D 1401, Time to 40/37/3 at 82 ° C, minutes	10	10
Foaming, ASTM D 892, Seq. II Tendency / Stability, ml / ml	0/0	0/0

Health and Safety

Based on available information, this product should not cause adverse effects on health when used for the intended application and the recommendations provided in the Material Safety Data Sheet (MSDS). The safety data sheets are available on request from Customer Services. This product should not be used for purposes other than those for which it is intended. If disposing of used oil, observe the regulations and protect the environment.

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