Mobil

Mobil SHC Gear 1500, 3200, 6800

Gear Oils

Product Description

The Mobil SHC Gear 1500, 3200, and 6800 lubricants are supreme performance heavy-duty gear oils primarily designed for all kinds of enclosed gearing as well as plain and rolling element bearings. They are designed to provide outstanding service in terms of equipment protection, oil life, and problem-free operation enabling increased customer productivity. These scientifically engineered synthetic lubricants are formulated from synthetic base fluids that have exceptional oxidation and thermal properties and excellent low temperature fluidity. The combination of a naturally high viscosity index and a unique additive system enables these products to provide outstanding performance under severe high and low temperature operating conditions. The nature of the synthetic base fluids also contributes to the products' excellent low temperature performance. They have excellent protection against gear scuffing and resistance to shock loading. The synthetic base stocks have inherently low traction properties that result in low fluid friction in the load zone of non-conforming surfaces such as gears and rolling element bearings. Reduced fluid friction produces lower operating temperatures and improved gear efficiency.

The Mobil SHC Gear 1500, 3200, and 6800 find application in a wide range of enclosed gear applications, as well as plain and rolling element bearings. Because of the very high viscosities they can meet the lubrication needs of very slow speed and high load/high temperature gears and bearings; they are ideal for situations in which conventional products operate in the boundary regime. There may be situations where a lubricant bath or recirculation system is used to apply the oil.

Mobil SHC Gear 1500, 3200, and 6800 are the products of choice for many OEMs and customers world-wide based on their wide application range and superb performance in tough situations.

Features and Benefits

The Mobil SHC Gear 1500, 3200, and 6800 are leading members of the Mobil SHC brand of products that are worldrenowned for their innovation and performance. These scientifically engineered synthetic lubricants symbolize the continuing commitment to using advanced technology to provide outstanding lubricant products. The Mobil SHC Gear 1500, 3200, and 6800 lubricants provide benefits not possible with mineral stocks, particularly under extreme high and low temperature operating conditions, and deliver performance features and customer benefits.

Our formulation scientists have used a proprietary additive combination that fortifies the base fluids to provide excellent gear scuffing protection and anti-wear performance, even in shock load situations. The resulting finished products have shown exceptional performance in OEM evaluations, customer field tests and commercial use. These high viscosity grades are particularly effective in low-speed, high load, high temperature situations and provide excellent gear and bearing protection, longer oil life and excellent all-round service compared with conventional products.

Specific features and potential benefits for the Mobil SHC Gear 1500, 3200, and 6800 lubricants include:

Features	Advantages and Potential Benefits Helps extended gear life and reduce maintenance costs		
Outstanding load-carrying and antiwear properties			
Very high viscosity grades available, without reduction of properties or performance capability	Provides excellent EHL film protection of gears and bearings even at slow speeds, high loads and high temperatures		
	Can be used to convert all-loss systems to circulation		
	Can replace grease in some applications resulting in plant product consolidation		
High viscosity index	Trouble-free operation over a wide temperature range particularly at extremely low temperatures.		
	Can help improved dear efficiency and lower operating		

http://www.mobil.com/India-English/Lubes/PDS/GLXXENINDMOMobil_SHC_Gear_1500_3200_6800.aspx

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Low traction properties	oan neip improved gear emolency and lower operating	
	temperatures lead to lower operating costs	
Outstanding thermal/ovidation registance and long pr	oduct life and change-out costs	
	and change-out costs	
Light color	Helps avoid need for gear cleaning prior to inspections,	
	helping to reduce maintenance costs	

Applications

Application Considerations: While the Mobil SHC Gear 1500, 3200, and 6800 are compatible with mineral oil based products, admixture may detract from their performance. Consequently it is recommended that before changing a system to one of the Mobil SHC Gear 1500, 3200, or 6800 lubricants, it should be thoroughly cleaned out and flushed to achieve the maximum performance benefits.

Mobil SHC Gear 1500, 3200, and 6800 oils are recommended for all types of enclosed steel-on-steel gear drives. They are suitable for both circulation and splash lubrication systems. They are particularly recommended for gear sets operating under heavy or shock loads and low speeds where boundary lubrication may prevail. Applications for this product family are:

- Mobil SHC Gear 1500, 3200 and 6800 Industrial enclosed spur, helical and bevel gears, especially slow speed, and/or high load units.
- Mobil SHC Gear 1500, 3200 and 6800 Plain and rolling element bearings, especially in slow speed, and/or high load applications.
- Mobil SHC Gear 3200 and 6800 Railroad DC Traction Motor drives.
- Mobil SHC Gear 3200 and 6800 Certain open gear applications such as oiling pinions or specially designed circulation systems.

Mobil SHC Gear	1500	3200	6800
ISO Viscosity Grade	1500	3200	
Viscosity, ASTM D 445			
cSt @ 40° C	1500	3200	8200
cSt @ 100° C	113	183	365
Viscosity Index, ASTM D 2270	165	165	180
Pour Point, °C, ASTM D 97	-18	-9	-6
Density@15.6°C kg/l, ASTM D 4052	0.88	0.89	0.90
Flash Point, °C, ASTM D 92	230	230	230
4-Ball EP Teat, ASTM D 2783:			
Weld load, Kg	250	250	250
Load Wear Index, Kgf	48	48	48
FZG test, ISO 14635-1 mod., Failure Stage	13+	13+	13+
Copper Corrosion, ASTM D130, 3 hrs @ 100° C	1B	1B	1B
Foaming Characteristics, ASTM D 892,Seq. I, II, III, Tendency/Stability, ml/ml	0/0, 0/0, 0/0	0/0, 0/0, 0/0	0/0, 0/0, 0/0
Rust Protection, ASTMD 665, Sea Water	Pass	Pass	Pass

Typical Properties

Health and Safety

Based on available information, this product is not expected to produce adverse effects on health when used for the intended application and the recommendations provided in the Material Safety Data Sheet (MSDS) are followed. MSDS's are

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available upon request through your sales contract office, or via the Internet. This product should not be used for purposes other than its intended use. If disposing of used product, take care to protect the environment.

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Typical Properties are typical of those obtained with normal production tolerance and do not constitute a specification. Variations that do not affect product performance are to be expected during normal manufacture and at different blending locations. The information contained herein is subject to change without notice. All products may not be available locally. For more information, contact your local ExxonMobil contact or visit www.exxonmobil.com

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