



Mobil SHC™ Gear Hi-Shock 150

Mobil Industrial , Canada

Gear Oils

Product Description

Mobil SHC™ Gear Hi-Shock 150 is a synthetic gear oil specifically designed and uniquely formulated for high shock load applications such as cycloidal drives. Mobil SHC Gear Hi-Shock 150 is engineered to provide 2-3x longer oil life compared to conventional mineral oils.

Mobil SHC Gear Hi-Shock 150 is the first and only synthetic oil approved by Sumitomo Drive Technologies. Mobil SHC Gear Hi-Shock 150 significantly outperformed any other synthetic lubricant in Sumitomo's proprietary durability test. Field trials using Mobil SHC Gear Hi-Shock 150 in multiple cyclo gear drives showed excellent wear protection compared to traditional mineral oils.

Mobil SHC Gear Hi-Shock 150 is a synthetic lubricant which provides enhanced oxidative stability. Higher oxidative stability means longer oil life even under the most severe operating conditions. Longer oil life also means less maintenance, lowers operational costs, and less equipment downtime. Mobil SHC Gear Hi-Shock 150 can last 2-3x longer than mineral based lubricants. Longer oil drain intervals also reduces the amount of waste oil and directly reduces the amount of money spent on lubricants each year.

Mobil SHC Gear Hi-Shock 150 is compatible with mineral and synthetic oil based products, admixtures may detract from their performance. Consequently it is recommended that before changing a system to Mobil SHC Gear Hi-Shock 150 it should be thoroughly cleaned out and flushed to achieve the maximum performance benefits.

Features and Benefits

Mobil SHC Gear Hi-Shock 150 lubricant is part of the Mobil SHC line of products that are recognized and appreciated around the world for innovation and outstanding performance. These synthetic products, pioneered by our research scientists, symbolize the continuing commitment to using advanced technology to provide lubricants with excellent balanced performance. A key factor in the development of Mobil SHC Gear Hi-Shock 150 was the close contacts between our scientists and application specialists with Sumitomo Drive Technologies to ensure that our product offering would provide exceptional performance with rapidly evolving industrial gear designs and operation. Not least among the benefits shown in work with Sumitomo Drive Technologies is the ability to

resist wear as demonstrated in Sumitomo's proprietary durability test. This cooperative work also demonstrated the all-round balanced performance benefits for the new Mobil SHC Gear Hi-Shock 150 technology, including a wide temperature range of application.

Features	Advantages and Potential Benefits
Excellent wear protection compared to mineral oils	Helps extend gear and bearing life. Cyclo drives operating under extreme conditions of load, speed and temperature. Helps reduce unplanned downtime; less maintenance - especially critical for difficult to access drives.
Superb resistance to degradation at high temperatures	Helps extend oil life and drain intervals and reduce oil consumption, which can lower maintenance costs

Applications

Mobil SHC Gear Hi-Shock 150 is the first and only synthetic oil approved by Sumitomo Drive Technologies. Mobil SHC Gear Hi-Shock is recommended for all Sumitomo Drive Technologies Cyclo Drives.

Specifications and Approvals

This product meets or exceeds the requirements of:

AGMA 9005-E02-EP

ISO L-CKB (ISO 12925-1:2018)

Properties and Specifications

Property	
Grade	ISO 150
Kinematic Viscosity @ 100 C, mm ² /s, ASTM D445	16.3
Kinematic Viscosity @ 40 C, mm ² /s, ASTM D445	150
Viscosity Index, ASTM D2270	115
Brookfield Viscosity @ -20 C, mPa.s, ASTM D2983	18400
Brookfield Viscosity @ -30 C, mPa.s, ASTM D2983	77200
Density @ 15.6 C, kg/l, ASTM D4052	0.88
Pour Point, °C, ASTM D97	-36
Flash Point, Cleveland Open Cup, °C, ASTM D92	240
Demulsibility, Total Free Water, for EP Oils, ml, ASTM D2711	85
Foam, Sequence II, Tendency, ml, ASTM D892	10
Foam, Sequence II, Stability, ml, ASTM D892	0
Copper Strip Corrosion, 3 h, 100 C, Rating, ASTM D130	1A
Rust Characteristics, Procedure B, ASTM D665	PASS
FZG Scuffing, Fail Load Stage, A/8.3/90, ISO 14635-1	12+
Total Acid Number, mgKOH/g, ASTM D664	0.9
Emulsion, Time to 37 mL Water, 82 C, min, ASTM D1401	10

Health and safety

Health and Safety recommendations for this product can be found on the Material Safety Data Sheet (MSDS) @ <http://www.msds.exxonmobil.com/psims/psims.aspx>

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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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