Mobil SHC™ Elite Series

Mobil Industrial , Japan

Exceptional Performance Circulating, Gear and Bearing Oils



Product Description

Mobil SHC™ Elite Series lubricants are exceptional performance circulating, gear and bearing oils designed to provide outstanding service in terms of oil drain intervals, equipment protection, oil life and problem-free operation helping to enable increased customer productivity. These scientifically engineered oils are formulated using the latest proprietary and patented Mobil SHC technology to provide outstanding and balanced performance in demanding applications at high temperatures.

Mobil SHC Elite Series products have demonstrated up to 3.6% improvement in energy efficiency in controlled laboratory testing(*). Mobil SHC Elite Series formulation also provides exceptional resistance to oxidation and deposit formation at elevated temperatures.

(*) Energy efficiency relates solely to the performance of Mobil SHC Elite when compared to conventional (mineral) reference oils of the same viscosity grade in gear applications. The technology used allows up to 3.6% efficiency compared to the reference when tested in a worm gearbox under controlled conditions. Efficiency improvements will vary based on operating conditions and application.

Features and Benefits

The Mobil SHC brand of lubricants are recognized and appreciated around the world for their innovation and outstanding performance. The development of Mobil SHC Elite Series was preceded by close contacts between our scientists and application specialists with key Original Equipment Manufacturers (OEMs) to ensure that the products provide exceptional performance in the continually evolving industrial equipment designs.

- Outstanding thermal / oxidation stability help to provide up to two times oil life** versus a leading a leading synthetic gear and circulating oil and reduce maintenance downtime
- Excellent deposit and varnish control helps to deliver cleanliness and extended oil and filter life
- High performance synthetic base stocks with high viscosity index enables wide temperature range capability and effective lubrication at high temperatures
- High load carrying capability protects equipment and extends life, helps minimize unexpected downtime and extend service periods
- Excellent resistance to rusting and corrosion, very good antiwear, demulsibility, foam control and air release
- Excellent seal compatibility helps reduce contamination and leakage

** Up to 2x oil life as demonstrated in numerous bench and rig tests. Oil life will vary based on application and operating conditions.

Applications

Mobil SHC Elite Series lubricants are recommended for use in a wide variety of circulating, gear and bearing applications where high temperatures are encountered or where operating temperatures or bulk oil temperatures are such that conventional lubricants give unsatisfactory life, or where improved efficiency is desired. They are particularly effective in applications where the maintenance costs of component replacement, system cleaning and lubricant changes are high. Specific applications require selection of the appropriate viscosity grade and include:

- Filled for life gearboxes, especially high ratio/ low-efficiency worm gears
- Remotely located gearboxes, where oil change-out is difficult
- Mixer roll bearings and roll neck bearings where high temperatures are encountered

- Plastic calendars
- Severe centrifuge applications, including marine centrifuges
- Mobil SHC Elite 150 and 220 are suitable for Oil Flooded Rotary Screw Compressors compressing natural gas, field gas gathering, CO2 and other process gasses used in the natural gas industry

Specifications and Approvals

This product has the following approvals:	150	220	320
Fives Cincinnati P-59			X
Fives Cincinnati P-74		X	
Fives Cincinnati P-77	X		

This product meets or exceeds the requirements of:	150	220	320
AGMA 9005-F16	X	X	X
DIN 51517-2:2018-09	X	X	X
DIN 51517-3:2018-09	X	X	X
ISO L-CKD (ISO 12925-1:2018)	X	X	X

Properties and Specifications

Property	150	220	320
Grade	ISO 150	ISO 220	ISO 320
Appearance, AMS 1738	Clear & Bright	Clear & Bright	Clear & Bright
Copper Strip Corrosion, 24 h, 121 C, Rating, ASTM D130	2A	2A	2A
Density @ 15.6 C, g/ml, ASTM D4052	0.870	0.872	0.873
Emulsion, Time to 37 mL Water, 82 C, min, ASTM D1401	30	30	30
FE8 wear test, V50 roller wear, mg, DIN 51819-3	2.5	1.5	
FZG Scuffing, Fail Load Stage, A/8.3/90, ISO 14635-1	12	13	13
Flash Point, Cleveland Open Cup, °C, ASTM D92	266	272	278
Foam, Sequence I, Stability, ml, ASTM D892	0	0	0
Foam, Sequence I, Tendency, ml, ASTM D892	2094	20	20
Foam, Sequence II, Stability, ml, ASTM D892	0	0	0
Foam, Sequence II, Tendency, ml, ASTM D892	50	50	50
Foam, Sequence III, Stability, ml, ASTM D892	0	0	0

Property	150	220	320
Foam, Sequence III, Tendency, ml, ASTM D892	50	50	50
Kinematic Viscosity @ 100 C, mm2/s, ASTM D445	18.7	26.6	33.7
Kinematic Viscosity @ 40 C, mm2/s, ASTM D445	150	220	320
Pour Point, °C, ASTM D5950	-36	-33	-33
Rotating Pressure Vessel Oxidation Test, min, ASTM D2272	2094	2075	1844
Rust Characteristics, Procedure B, ASTM D665	PASS	PASS	PASS
Turbine Oil Stability Test, Life to 2.0 mg KOH/g, h, ASTM D943	10000	10000	10000
Viscosity Index, ASTM D2270	140	146	150

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

All trademarks used herein are trademarks or registered trademarks of Exxon Mobil Corporation or one of its subsidiaries unless indicated otherwise.

11-2023
ExxonMobil Japan Godo Kaisha

Shinagawa Grand Central Tower

2-16-4, Konan, Minato-Ku,

Tokyo, 108-8218,

Japan

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
ExxonMobil is comprised of numerous affiliates and subsidiaries, many with names that include Esso, Mobil, or ExxonMobil. Nothing in this document is intended to override or supersede the corporate separateness of local entities. Responsibility for local action and accountability remains with the local ExxonMobil-affiliate entities.

ExxonMobil

Exxon Mobil Esso XTO

© Copyright 2003-2024 Exxon Mobil Corporation. All Rights Reserved