

Mobil SHC™ 600 Series

Synthetic circulating and gear oils



Energy lives here™

Product features

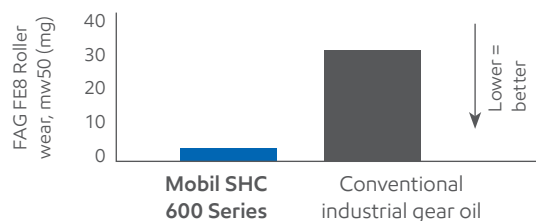
For more than 40 years, Mobil SHC™ 600 Series synthetic circulating and gear oils have delivered premium performance in gearboxes, even in extreme conditions and temperatures or under heavy loads. They are formulated to:

- Provide exceptional rust and corrosion protection
- Limit power consumption
- Offer excellent demulsibility
- Deliver outstanding foam control and air-release properties

500+ major equipment builders recommend these lubricants in **1,800+** applications.

Bearing wear protection

In FAG FE8 bearing testing, Mobil SHC 600 Series lubricants protect bearings significantly better than conventional oils.



Potential benefits

Mobil SHC 600 Series oils can help:

- 1** Reduce equipment downtime
- 2** Minimise maintenance
- 3** Minimise operational costs
- 4** Extend oil life by up to six times vs. conventional oil

Potential to reduce operating costs

The lubricants' low fluid friction cuts operating temperatures compared with mineral-based alternatives. This improves gear efficiency and reduces power consumption. The oils last up to six times longer than mineral oils, extending drain intervals and reducing waste oil and disposal costs. Not only does this help marine operators save money, it also reduces the vessel's environmental impact.

Applications	No Objection Letters
Fuel and lubricant centrifuges	✓
Cranes	✓
Hard-to-service equipment	✓
Range of deck machinery	✓
Applications where costs of component replacement, system cleaning and lubricant changes are high	✓

Mobil SHC™ 600 Series

Greatly outperforms standard mineral oils

Formulated from synthetic base oils with an inherently high viscosity index and a proprietary additive system, Mobil SHC™ 600 Series lubricants offer performance advantages that mineral oils cannot match.

Up to 3.6% reduced energy consumption versus conventional oils in field and laboratory tests.*

Typical properties†

Mobil SHC 600 Series	624	625	626	627	629	630	632	634	636	639	
ISO Viscosity Grade	32	46	68	100	150	220	320	460	680	1000	
Viscosity, ASTM D 445											
cSt @ 40°C	32	46	68	100	150	220	320	460	680	1000	
cSt @ 100°C	6.3	8.5	11.6	15.3	21.1	28.5	38.5	50.7	69.0	98.8	
Viscosity Index, ASTM D2272	148	161	165	162	166	169	172	174	181	184	
Pour Point, °C, ASTM D5950	-57	-54	-51	-45	-39	-36	-33	-30	-30	-27	
Flash Point, °C, ASTM D 92	236	225	225	235	220	220	225	228	225	222	
Density @ 15°C (60°F), g/cc ASTM D4052	0.85	0.85	0.86	0.86	0.86	0.87	0.87	0.87	0.87	0.87	
Appearance, visual	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	
TOST, ASTM D 943 mod, hours	10,000+	10,000+	10,000+	10,000+	10,000+	10,000+	10,000+	10,000+	10,000+	10,000+	
RPVOT, ASTM D 2272, minutes	2500	2500	2500	2500	2500	2500	2500	2500	2500	2500	
Rust protection, ASTM D665B, Synthetic Sea Water	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	
Water Separability, ASTM D1401, Min. to 37 ml water @ 54°C	10	15	15	-	-	-	-	-	-	-	
Water Separability, ASTM D1401, Min. to 37 ml water @ 82°C	-	-	-	15	20	20	20	20	20	25	
Copper Corrosion, ASTM D130, 24 hrs @ 121°C	1B	1B	1B	1B	1B	1B	1B	1B	1B	1B	
Foam Test, ASTM D892, Seq I,II,III Tendency/ Stability, ml/ml	15/0, 20/0, 25/0	10/0, 30/0, 10/0	10/0, 20/0, 10/0	0/0, 10/0, 0/0	0/0, 0/0, 0/0	0/0, 10/0, 0/0	0/0, 0/0, 0/0	0/0, 0/0, 0/0	0/0, 0/0, 0/0	0/0, 0/0, 0/0	0/0, 0/0, 0/0
FZG gear scuffing test, A/8.3/90, ISO 14635-1 (mod), Failure Stage	11	12	12	12	13	13+	13+	13+	13+	13+	
FAG FE8 Bearing Wear Test 7.5/80-80 (DIN 51819-3) Roller Wear (mg)	-	-	-	2	2	2	2	2	2	2	

*Energy efficiency relates solely to the fluid performance when compared with conventional reference oils of the same viscosity grade in gear applications. The technology used allows up to 3.6 percent efficiency compared with the reference when tested in circulating and gear applications under controlled conditions. Efficiency improvements will vary based on operating conditions and applications.

†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 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.