



Mobil SHC Gear OH Series

Next-generation lubricants for Off-Highway applications



Optimum protection in severe duty and extreme climates.

Building on the success of Mobilgear SHC Series and featuring the latest in advanced Mobil SHC technology, fully synthetic Mobil SHC Gear OH Series delivers superb wear protection for mining Off-Highway Vehicle (OHV) electric wheel motor drives. Customer productivity is enhanced through exceptional low-temperature fluidity for easy cold start-up, outstanding load-carrying capabilities, and robust oxidation and thermal degradation resistance. Mobil SHC Gear OH Series' very high viscosity index, combined with a unique additive system, enables it to provide outstanding performance and maximum component life under severe high- and low-temperature operating conditions.

Proven performance for mining and quarrying equipment.

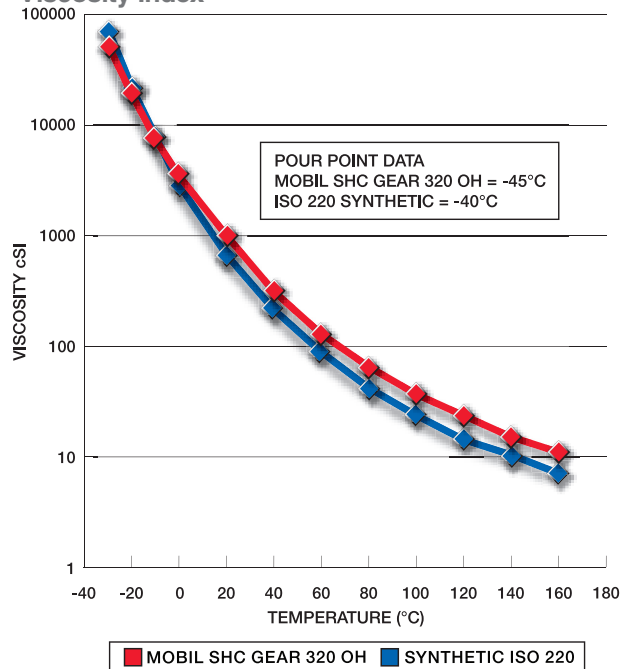
Mobil SHC Gear OH Series provides enhanced protection in OHV wheel motor drives that are subject to severe duty cycles and extreme climates. Its advanced formulation offers proven performance across a range of major equipment builders.

Typical Properties

Test Description	Test Method	Mobilgear SHC 680	Mobil SHC Gear 680 OH
ISO Viscosity Grade	ISO 3448	680	680
Kinematic Viscosity at 40°C, cSt	ASTM D 445	680	680
Kinematic Viscosity at 100°C, cSt	ASTM D 445	63.1	69
Viscosity Index	ASTM D 2270	163	190
ASTM Color	ASTM D 1500	L0.5	L0.5
Density 60°F, g/cc	ASTM D 4052	0.86	0.86
Flash Point C O C, °C	ASTM D 92	256	224
Pour Point, °C	ASTM D 5950	-27	-47
Brookfield @ 0°F (-18°C), cP	ASTM D 2983	70000	45800
Total Acid Number, mg KOH/g	ASTM D 665	0.6	0.8
4-Ball EP Test, Weld Load, kgf	ASTM D 2783	250	250
4-Ball EP Test, Load Wear Index, kgf	ASTM D 2783	48	62.5
FZG Gear Scuffing (A/8, 3/90)	ISO 14635-1 mod	>13	>13
Copper Corrosion, 3H @ 121°C	ASTM D 130	1B	1B
Rust, synthetic seawater	ASTM D 665B	Pass	Pass
Foam Seg. I Tend/Stab, ml	ASTM D 892	0/0	0/0
Foam Seg. II Tend/Stab, ml	ASTM D 892	20/0	20/0
Foam Seg. III Tend/Stab, ml	ASTM D 892	0/0	0/0
Demulsibility of EP Oils, Free Water, ml	ASTM D 2711	85	79

New Mobil SHC Gear OH Series will include 320, 460, and 680 grades; viscosity grade availability will vary by country.

Viscosity Index



The above Viscosity-Temperature chart shows that Mobil SHC Gear 320 OH has data similar to an ISO 220 synthetic gear oil. This means that at lower temperatures Mobil SHC Gear 320 OH performs like an ISO 220, but at higher temperatures, it will still give you the protection of an ISO 320 synthetic gear oil. This trend is consistent with other viscosity grades.

For more information on Mobil SHC Gear OH Series and other Mobil Industrial lubricants and services, please contact your local company representative, the Mobil technical help line at 1-800-662-4525, or visit www.mobilindustrial.com.