

Off-highway vehicle motorized drives

Challenge: **Motorized gear drive reliability** on haul trucks is critical to mining productivity. Drives operate for long periods under high, variable loads and wide temperature ranges. Builders have established stringent gear oil specs, including robust gear scuffing and micropitting requirements.

Solution: **Protect your motorized drives with Mobil SHC™ synthetic gear oils with proven field performance** to reduce gear wear, extend oil service intervals, reduce frictional losses and protect equipment during startup at cold temperatures.

Compared to conventional lubricants, Mobil SHC lubricants provide:



Safety

- Reduced maintenance personnel exposure



Environmental Care

- Reduced used oil generation and disposal



Productivity

- Fewer breakdowns and repairs
- Reduced lubrication maintenance costs
- Lower fuel costs vs. mineral gear oils

Industries

- Open mines and quarries

Key applications

- Wheel motorized gear cases including planetary gear systems
 - Capacity: 15-20 gallons each (55-75 liters), 2 per truck

Products

- Mobil SHC™ Gear 460 oils and Mobil SHC™ Gear 680 oils
- Mobil SHC™ Gear 460 OH oils and Mobil SHC™ Gear 680 OH oils



*Visit mobil.com/shc to learn how certain Mobil-branded lubricants may provide benefits to help minimize environmental impact. Actual benefits will depend upon product selected, operating conditions and applications.

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Key equipment builder approvals

Mobil SHC™ lubricants are endorsed by leading motorized gear drive builders, including:

- **General Electric (GE)**
 - Mobil SHC™ Gear 460/460 OH and Mobil SHC™ Gear 680/680 OH oils — approved as of January 2016
- **BELAZ**
 - Mobil SHC Gear 460 OH and Mobil SHC Gear 680 OH oils — approved as of March 2017
 - ODI increased up to 4,000 hours vs. 2,500 hours for current GL-5 SAE 85W-140 oils

Technical bulletin

Mobil SHC™ Gear Series meets new GE OHV motorized wheel gearbox oil spec

Visit mobil.com/industrial to search by equipment builder name for specific recommendations.



The energy efficiency design is a trademark of Exxon Mobil Corporation. Energy efficiency relates solely to the fluid performance when compared to conventional (mineral) reference oils of the same viscosity grade in circulating and gear applications. The technology used allows up to 3.6 percent efficiency compared to the reference when tested in a worm gearbox under controlled conditions. Efficiency improvements will vary based on operating conditions and application.

Note: Productivity Pointers are provided for the use of ExxonMobil and our authorized distributors. Schematics and product series recommendations are intended as a general guide. Please visit mobil.com/industrial for specific builder recommendations.

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