

Coal pulverizers/crushers

Challenge: **Coal pulverizer reliability.** Repairs and even routine maintenance are time-consuming and costly due to difficult operating conditions. Operating temperatures can be high and coal dust is typically present. Careful protection of this asset is critical to reliability and productivity, as well as personnel safety.

Solution: **Protect coal pulverizers with synthetic lubricants** designed to minimize maintenance through their outstanding viscometrics. The use of high-performance synthetics can help limit frictional losses and mitigate wear, enhancing oil and component life.

Compared to conventional lubricants, Mobil SHC™ lubricants can provide:



Safety

- Reduced exposure to hazardous maintenance



Environmental Care

- Reduced used oil disposal
- Lower energy usage and related CO₂ emissions



Productivity

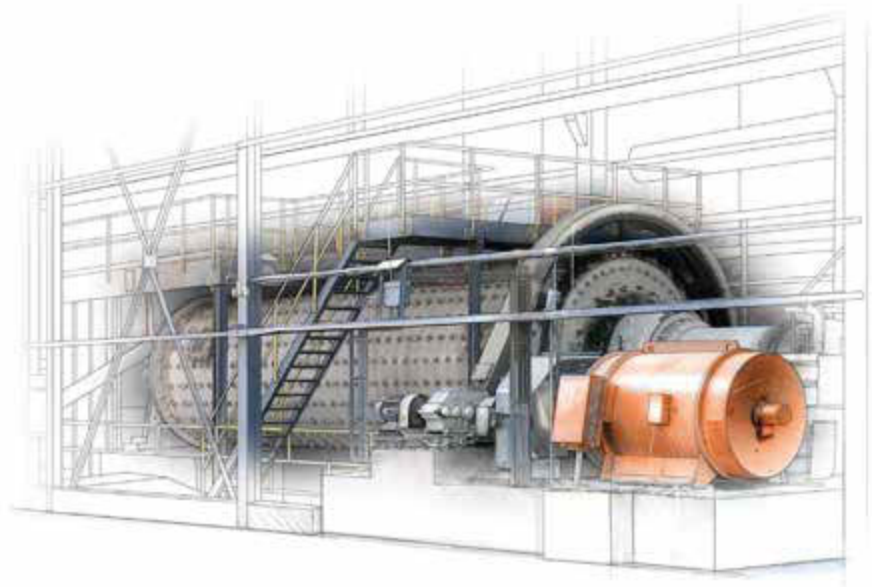
- Longer component and oil life
- Operating energy savings from reduced friction
- Redeploy maintenance team to higher-value work

Industries

- Power generating stations

Key applications

- Gears — worm and helical, bevel combinations
- Roller element bearings



*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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Products

- **Mobil SHC™ 600 Series***
 - Shaft bearings and gear speed reducers
- **Mobil Glygoyle™ ISO Series**
 - Shaft bearings and gear speed reducers

Key equipment builder approvals

Mobil SHC™ lubricants are endorsed by leading coal pulverizer mill builders, including:

- Babcock & Wilcox Company
- Cedarapids Inc.
- CITIC Heavy Industries Company, Ltd.
- Mitsubishi Hitachi Power Systems, Ltd.
- Shanghai Heavy Machinery Plant Company

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



Proof of Performance

Mobil SHC™ 634 synthetic gear oil helps coal-fired power plant protect pulverizer gear drives and achieve over 30 years in service

Mobil SHC™ 636 synthetic oil and Planned Engineering Services help power company save US \$15,000 per year on longer bearing life, less downtime and repair costs

Mobil Glygoyle™ 460 synthetic oil and Planned Engineering Services help Shanghai power company save US \$66,000 on longer bearing life, less downtime and repair costs

Mobil SHC™ 627 synthetic gear oil helps coal mill extend oil drain intervals by five years

Read the complete stories at mobil.com/shc, where you can explore other success stories and find out how Mobil SHC synthetic lubricants can energize your business.



*The energy efficiency design is a trademark of Exxon Mobil Corporation. 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 a worm gearbox under controlled conditions. Efficiency improvements will vary based on operating conditions and applications.

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 equipment recommendations.

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