

# Mobil SHC Gear 320 synthetic gear oil generates 2.4% energy savings in ceramics manufacturing\*



Energy lives here™

## Gearboxes | Ceramics mill | Turkey

### Situation

A Turkish ceramics mill selected 100 gearboxes with different oil volumes and power varying from 90 to 110 kW for this energy savings project. All the gearboxes had been lubricated with a conventional gear oil. The customer had also experienced, on average, 10 lubrication related failures annually. The customer was not following oil condition by any oil analysis program.

### Recommendation

ExxonMobil engineers recommended testing the energy saving potential of **Mobil SHC Gear™ 320** synthetic gear oil in selected gearboxes. **Signum<sup>SM</sup> Oil Analysis** was recommended to monitor oil condition. **Mobil SHC Gear 320** synthetic gear oil has low traction properties that result in low fluid friction in the load zone of non-conforming surfaces such as gears and rolling element bearings.

### Benefit

**Mobil SHC Gear 320** synthetic gear oil helped to improve the energy efficiency of tested gearboxes by an average of 2.4%\*, compared to the previous conventional gear oil. Customer reported no longer experiencing lubrication related failures.

Up to  
**US\$304,000**  
estimated annual energy  
cost savings

### Industrial Lubricants



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Productivity™**

### Safety

Reduced planned maintenance has helped customer to reduce employee interaction with equipment and diminish associated injury risks.

### Environmental Care

The gearboxes working with **Mobil SHC Gear 320** was measured to consume an average of 2.4% less energy compared to gearbox that used previous mineral product\*\*.

### Productivity

Annual savings were approximately US\$304,000 due to decreased energy consumption.

\* This proof of performance is based on the experience of a single customer. Actual results can vary depending upon the type of equipment used and its maintenance, operating conditions and environment, and any prior lubricant used.

\*\* Visit [mobilindustrial.com](http://mobilindustrial.com) to learn how certain Mobil-branded lubricants may provide benefits to help reduce environmental impact. Actual benefits will depend upon product selected, operating conditions and applications.

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