

Mobil SHC™ Gear 460 reduces energy consumption of cement mill gearbox and provides \$4,200 cost savings per annum



Energy lives here™

CMD Gearbox | Cement Plant | Turkey

Situation

A cement plant in Turkey used to run the main gearbox of its cement grinding ball mill with a conventional mineral gear oil. The multi-stage main gearbox of the ball mill has an oil capacity of 900 litres and is driven by a 1,400 kW electric motor.

Benefit

The customer closely monitored the energy consumption of the gearbox before and after the switchover for a period of two months. The energy consumption data shows that the main gearbox of the cement mill consumes 0.5% less energy per ton of cement produced with **Mobil SHC Gear 460** compared with conventional mineral gear oil.

Recommendation

As a result of a comprehensive Mobil ServSM Site Study conducted by ExxonMobil field engineers throughout the plant, the main gearbox of the cement mill has been identified as one of the potential applications that could be improved in terms of energy efficiency. The customer accepted the ExxonMobil field engineers' proposal and the conversion to fully synthetic **Mobil SHC™ Gear 460** was successfully completed after a thorough flushing process.

0.5%*
reduced energy consumption

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* 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.

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