**Mobil SHC**<sup>®</sup> Performance by **E**% on Mobil

Converting grease lubricated gear spindles to Mobil SHC 639 synthetic oil lubrication helped improve equipment life span by 250%\*



Energy lives here<sup>™</sup>

## SMS Siemag gear spindles | Hot rolling steel mill | Germany

#### Situation

A hot rolling mill uses gear spindles that transmit high torque between its gearboxes and rolls. Traditionally gear spindles are grease lubricated. Under severe operation conditions grease has a tendency to bleed more oil and remove grease from contact zone. Insufficient lubrication increases tooth wear and keeps wear particles and contamination in the contact zone. Service life of the grease lubricated spindles had been about 9 months.

#### Recommendation

ExxonMobil engineer worked closely with the equipment builder, SMS Siemag, to convert the gear spindles to oil lubrication. **Mobil SHC™ 639** synthetic circulating oil, with its high 1,000 cSt viscosity, was selected due to its ability to withstand the high shock loads experienced even in normal operating conditions.

# Industrial Lubricants

Advancing

Productivity

#### Safety

Reduction of maintenance and spindle changes has helped reduce employee interaction with equipment and diminish associated injury risks.

#### Benefit

By converting grease lubrication of the spindles to oil lubrication with **Mobil SHC 639**, the life span of the spindles increased by 250%. Customer has not experienced any failures in 32 months\* and continues running mill safely without unplanned spindle maintenance.

Up to JU,U in estimated annual savings for spindle maintenance\*

#### **Environmental Care**

Conversion to oil lubrication has helped decrease oily waste generated for disposal. Reduced overhaul of gear spindles has decreased failed equipment for disposal\*\*.

#### **Productivity**

Decrease in gear spindle failures and reduction of gear spindle maintenance has generated annual savings of approximately €1,000,000.

\* 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 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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