

Mobilith SHC™ 100 synthetic grease helps manufacturer extend Fitz Mill bearing life to reduce plant downtime*



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Fitz Mill ball bearings | Manufacturing plant | South Carolina, United States

Situation

A South Carolina manufacturing plant operates five Fitz Mill units equipment with two self-aligning ball bearings per unit. These high speed bearings operate at 7,200 rpm and at temperatures between 66°C (150°F) and 93°C (200°F). The lubricating grease was unable to deliver adequate oil film in these conditions, leading to 20 bearing failures per year. In an effort to improve equipment reliability, the company approached ExxonMobil to identify an alternative lubrication strategy capable of extending equipment life and enhancing operational productivity.

Recommendation

ExxonMobil engineers recommended switching to **Mobilith SHC™ 100** synthetic grease. Formulated with a synthetic ISO 100 viscosity base oil, **Mobilith SHC 100** is designed to reduce wear with its high load carrying capabilities in high temperatures, while also providing excellent rust and corrosion protection.

Impact

One year after upgrading to **Mobilith SHC 100** synthetic grease, the company reported no bearing failures on its Fitz Mill units, leading to improved production reliability and operational efficiency.

Benefit

The company reports that **Mobilith SHC 100** synthetic grease has enabled it to reduce Fitz Mill maintenance and repair costs and increase productivity, generating company-estimated annual savings of US \$304,000.

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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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