

Mobil SHC™ 630 synthetic gear oil helps paper manufacturer prevent component wear and extend oil drain intervals*



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Allimand paper machine gearbox | Paper manufacturer | Samutsakorn, Thailand

Situation

A packaging paper manufacturer operates two Allimand paper machines. Lubricated with a conventional mineral oil, the paper machines were subjected to operating temperatures as high as 70°C (158°F) and suffered from excessive wear on gearboxes, forcing personnel to conduct oil changes every three months. In an effort to improve equipment reliability, the company approached ExxonMobil to identify a lubricant solution capable of extending oil drain intervals and operating in severe conditions.

Recommendation

ExxonMobil engineers recommended the company switch to **Mobil SHC™ 630** synthetic gear oil. Formulated with high VI base fluids that resist high temperature viscosity loss and a proprietary additive system, **Mobil SHC 630** is designed to provide outstanding lubrication for gears operating at elevated temperatures while resisting thermal breakdown, oxidation and related deposit formation. Additionally, ExxonMobil engineers recommended implementing routine **Mobil Serv™ Lubricant Analysis** to monitor equipment and oil condition.

Impact

After transitioning to **Mobil SHC 630** synthetic gear oil, the operating temperature of the gearboxes declined to 50°C (122°F) and no excessive wear was observed on the gear teeth in the two and a half years following the transition. Additionally, the company extended oil drain intervals by six times, lowered used oil generation, minimized human-machine interaction and reduced downtime to 18 days.

Benefit

The company reports that **Mobil SHC 630** synthetic gear oil helped lower operating temperatures, extend oil drain intervals and reduce downtime on its gear drives, generating company-estimated annual savings of US \$9,500.

Extended oil drain
intervals by
21 months
while lowering gear
temperatures by
20°C

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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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