

Mobil SHC™ 632 helps Indian cement company quadruple stacker reclaimer gearbox oil service schedule*



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Bonfiglioli gearbox | Dalmia Cement Bharat Limited | Dalmiapuram, Tamil Nadu, India

Situation

Dalia Cement operates a stacker reclaimer in its Dalmiapuram plant. Lubricated with a conventional ISO 460 VG oil, the gearboxes operated at elevated temperatures and loads, resulting in shear thinning of the gear oil and the need for change-outs every 8,000 hours. In an effort to extend oil drain intervals, Dalia Cement approached ExxonMobil to identify a lubricant solution capable of withstanding these high operating temperatures.

Recommendation

ExxonMobil engineers recommended the company switch to **Mobil SHC™ 632** synthetic gear oil, an ISO 320 viscosity grade. Formulated with proprietary performance additives and synthetic base oils, **Mobil SHC 632** provides a much higher viscosity index and lower traction coefficient than conventional oils. In comparison, it resists high temperature oxidation and shear thinning to provide superior oil film thickness under loads and longer oil drain intervals.

Impact

After transitioning to **Mobil SHC 632** synthetic gear oil, the company used its plant energy meter to measure a 5.67% increase in energy efficiency and also observed a 20°C reduction in the reclaimer gearbox operating temperature.

Benefit

The company reports that **Mobil SHC 632** has helped extend oil drain intervals by four times, generating significant lubrication and energy cost savings.

Generated company-estimated annual savings of
US \$1,790



*The energy efficiency design is a trademark of Exxon Mobil Corporation. Energy efficiency relates solely to the fluid performance when compared with conventional reference oils of the same viscosity grade in gear applications. The technology used allows up to 3.6 percent efficiency compared with the reference when test in a worm gearbox under controlled conditions. Efficiency improvements will vary based on operating conditions and applications.

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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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