Mobil Centaur XHP™ 462 reduces bearing replacement rate in sugar & ethanol plant filter presses to zero.

Energy lives here™

Filter press | Sugar & Ethanol Plant | Jaú, São Paulo

Situation

48 filter press bearings were lubricated with conventional lithium grease following the equipment manufacturer's original recommendation. On average, 42% of the bearings were replaced in the off-season as they showed signs of failure due to oxidation and corrosion due to the high water vapour contamination inherent to the process. Some failures progressed more quickly during the season and there were occasional unscheduled shut-downs of the equipment to replace the bearing.

Recommendation

After evaluating the operating conditions, Moove Engineering recommended replacing the conventional lithium grease with Mobil Centaur XHP™ 462. With its proprietary technology and calcium sulphonate thickener, Mobil Centaur XHP™ 462 is able to ensure the protection of bearings in environments with high water contamination, as this grease is able to absorb up to 50% of its own weight in water without its properties being negatively affected.

Benefits

When Mobil Centaur XHP™ 462 was used for two consecutive seasons, NO bearings failed during the season, and the off-season inspection resulted in 100% reuse of the bearings as the signs of oxidation and/or corrosion were no longer observed. There was an important contribution to worker safety, 30 hours of human-machine intervention were avoided due to bearings that did not need to be replaced and no unscheduled stoppages for changing bearings in service were recorded.

2 unscheduled stoppages were avoided over the season.

Industrial Lubricants | Advancing Productivity™

Safety

A 30 hour reduction in human-machine interventions.

Environment

100% of the bearings were maintained for use in the next season.

Productivity

2 unscheduled stoppages avoided over the season.

* 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 mobil.com/industrial 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.

ExxonMobil. All trademarks used herein are trademarks or registered trademarks of Exxon Mobil Corporation or one of its subsidiaries.

mobil.com/industrial