

Mobilith SHC™ 460 eliminates the need for human intervention on the bagasse belt bearings.



Energy lives here™

Bagasse belts | Sugar & Ethanol Plant | Santa Juliana, Minas Gerais

Situation

Low-speed bearings, such as those fitted to the conveyor belts of sugar and ethanol plants, are typically lubricated once a month and use conventional lithium or lithium complex grease. Conveyor belts require a high number of interventions by lubrication technicians on the numerous bearings fitted along their length to renew the grease used and thus keep the belts operating efficiently and reliably.

Recommendation

After evaluating the application and the operating conditions, Moove Field Engineering recommended filling the bearings in the off-season with Mobilith SHC™ 460 grease and to leave it in the bearings for the entire season (for the whole of the belt operating period) without re-lubricating.

Moove Engineering has experience in similar applications. It has already executed projects that remove the need to lubricate bearings for up to 2 consecutive seasons and, in addition to relying on the technology included in Mobilith SHC™ 460 to reach this milestone, Moove engineering monitored the performance of the lubricant using the vibration analysis technique, as well as analysing the grease at the end of the season to ensure that it effectively protected the bearings right up to the end.

Benefits

After continuous use of Mobilith SHC™ 460 in 124 cane bagasse belt bearings without any lubrication intervention throughout an entire season, 992 human-machine interactions were avoided during the belt's operating period with zero bearing failures and a check using predictive techniques that the grease reached the end of the season in perfect condition and able to effectively protect the bearings.

992 fewer human-machine interventions in one season

Industrial Lubricants



Safety

Reduction of 99 person-hours of lubrication work.

Environment

Reduction of 248 kg in the amount of grease used.

Productivity

Conveyor reliability with zero human lubrication interventions.

* 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.

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