

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



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## Bagasse belt | Sugar & Ethanol Plant | Leme, São Paulo

### 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 the initial filling of only 10 bagasse belt bearings with Mobilith SHC™ 460 grease and maintaining it in the bearings without the need for renewal (lubrication) for two consecutive seasons, even eliminating the need for bearing disassembly, inspection and reassembly between the two seasons. 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

With the continuous use of Mobilith SHC™ 460 in 10 bagasse belt bearings for two consecutive seasons without any lubrication intervention, 160 human-machine interventions were avoided over the period with zero bearing failures and verification, using predictive techniques, that the grease reached the end of two seasons in perfect condition and with the ability to effectively protect the bearings.

160 human-machine interventions avoided for 10 bearings over two seasons

Industrial Lubricants



### Safety

Reduction of 16 person-hours of lubrication work.

### Environment

Reduction of 32 kg in the amount of grease used.

### Productivity

Bearing 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](http://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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