

Mobil Centaur XHP™ 462 reduces bearing failure rate, increases diffuser efficiency and provides greater safety for workers.



Energy lives here™

## Diffuser raising screw battery | Sugar & Ethanol | Goiás state

### Situation

The Sugar and Ethanol Plant had lubricated the diffuser raising screw bearings with conventional lithium grease since the beginning of its operation. Due to the high water vapour contamination – inherent to the juice extraction process – it was faced with constant breakdowns of this equipment. Within a 4 season period, over 60% of the bearings failed in service, 50 out of a total of 80 bearings were replaced in that period.

### 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

After the application of Mobil Centaur XHP™ 462 grease over the next 4 seasons, there was a 56% reduction in these bearings' service failure rate, with a direct positive impact on the efficiency of the diffuser and on the safety of workers, as the bearing changes reduced human-machine interventions by 488 hours. In addition, the savings achieved in the purchasing of new bearings amounted to £4,000 for that period.

488 hours  
reduction in human  
machine intervention

Industrial  
Lubricants



### Safety

A 488 hour reduction in human-machine interventions.

### Environment

Fewer purchases and discarding of bearings.

### Productivity

4 thousand pounds saved on the purchasing of new bearings.

\* 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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