

Mobiltemp SHC™ 100 doubles the lubrication interval and increases boiler reliability in sugar-ethanol plants.



Energy lives here™

Boiler extractors and fans | Sugar & Ethanol Plant | Bocaina, São Paulo

Situation

Vibration analysis technicians at the plant observed an upward trend in the frequency of the acceleration spectra, which indicates a lack of lubrication in the bearings of the boiler’s fans and extractors. The energy reached the alarm level every week, and the technicians requested that the bearings be lubricated with the usual grease used until then, which reduced the vibration energy in the bearings until the following week.

Recommendation

After evaluating the application and the operating conditions of the boiler fan and extractor bearings, Moove’s Lubrication Engineering carried out an EHL (elastohydrodynamic lubrication) study and recommended the use of Mobiltemp SHC™ 100 grease.

This recommendation is based on the technology used in the clay thickener – recommended for the high temperatures observed in these bearings – and on the ISO VG 100 synthetic base oil, which provides the correct viscosity for the lubrication of these components.

Benefits

Mobiltemp SHC™ 100 grease doubled the bearing lubrication interval and reduced the envelope vibration spectrum, which had peaked at 22.8 gE, to values below 1.5 gE.

In addition to the increased bearing reliability, the Mobiltemp SHC™ 100 eliminated 96 human-machine interactions in the bearing lubrication task in just one season.

93% reduction
in the peak bearing
vibration with twice the
lubrication interval.

Industrial
Lubricants



Safety

A 14 hour reduction in human-machine interactions.

Environment

A 27 kg reduction in the grease used for just 6 bearings.

Productivity

A doubling of the lubrication interval with improved bearing reliability.

* 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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