

Challenge

Background

A paper mill was using a commonly available grease with a base oil viscosity of ISO VG 460 on the paper machine roll bearings. The equipment operated under extreme conditions, including vibrations, moisture, and high temperatures, which caused the lubricating film to break and cause excessive wear. This led to frequent high-temperature alarms, stopping operations and causing production losses.

The mill sought a lubrication solution that could provide effective bearing protection under these extreme operational conditions.



Large size bearings on paper machine rolls that need high-viscosity grease for proper lubrication.

Solution

Product

After understanding the problem, a Chesterton specialist recommended **Chesterton® 615 HTG #2 - 460** grease. This high-viscosity grease is designed for slow-moving, large-bore bearings similar to those on the paper machine.

615 HTG #2 - 460 offers excellent high-temperature, extreme pressure, and water washout resistance, forming an adherent lubricating film capable of withstanding the harsh conditions present in paper mills.

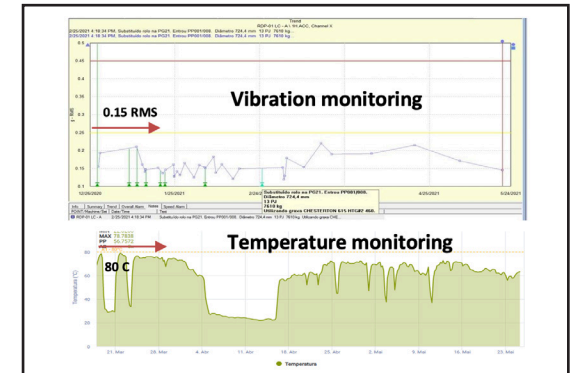


High-pressure, high-temperature and water-resistant grease, 615 HTG #2 - 460.

Results

Reduced Downtime

Monitoring of the bearing showed no increase in vibrations and temperatures above the specified limits of 0.15 RMS and 80°C, respectively. As a result, the customer was able to reduce bearing failures, unplanned alarms, and shutdowns. With the success of the program, this solution was implemented on other paper machines at the sister facility.



615 HTG #2 - 460 helped the application to run under specified temperature and vibration to avoid alarms and stoppages.