CASE STUDY

CHESTERTON
Global Solutions, Local Service.

PULP AND PAPER INDUSTRY

Industrial Lubricants and MRO Products

Pulp and Paper Mill Improves Reliability and Increases Productivity

Product Solutions: Chesterton® 638 EMG 46

Challenge

A major pulp and paper mill had installed a single-point lubricator with polyurea grease for electric motors with incorrect viscosity. Due to a lack of shear stability of the polyurea grease, the bearings frequently overheated and showed signs of grease leakage.

The maintenance manager wanted to increase pulp pump motor life and reduce bearing replacement frequency.

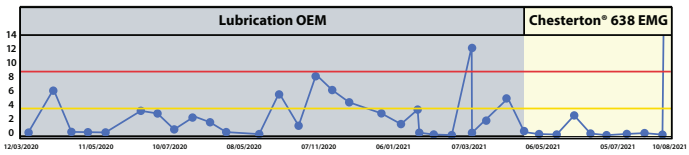
Solution

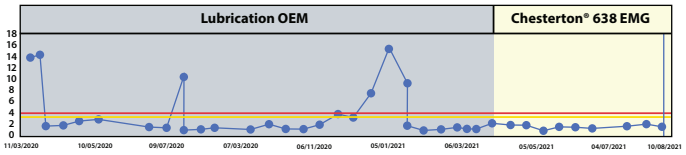
A precise grease dosing rate, as well as correct grease base oil viscosity, were determined. Chesterton® 638 EMG 46 grease was recommended because it has a high shear stability and very low oil separation.

Results

The results from bearing vibration analysis were compared for polyurea and Chesterton 638 EMG grease. When polyurea grease was used, the motor bearings produced average 3 – 5 excess vibration readings, which triggered alarms. Moreover, the baseline vibrations were of higher amplitude.

Chesterton 638 EMG 46 demonstrated immediate reduction in base line readings by 15% – 20%. The motor did not experience any excess vibrations and alarms. This helped increase the life of the grease and motor bearings, significantly.





638 EMG 46
***demonstrated immediate reduction in base line readings by* 15% – 20%**

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