

Bulletin SEMEQ



SEMEQ / STEEL MILL COMPANY

12/29/2023

Focus on Predictive Maintenance

MIDLOTHIAN- TX 

At A Steel Mill company located in Texas, we ended the year with:

- More than 390 assets monitored,
- More than 700 sensors that help us achieve the maximum capacity of the equipment, prolong the useful life of the assets, increase the reliability of the machinery, and reduce failures and breakdowns, among other advantages of the predictive maintenance monitoring system.



Successful partnership

SEMEQ
Intelligence in Asset Health



Case Study



Our intelligent sensors for Industry 4.0 helped provide more precise monitoring and greater predictability of failures.

Axon HD- Vibration and Temperature Sensor



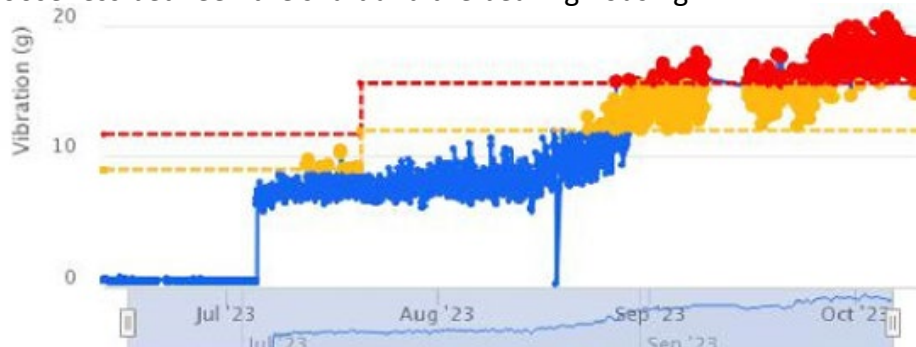
Melt shop - Near Net Caster - 2 Fresh Water Pump

Diagnosis report: #DR00000112

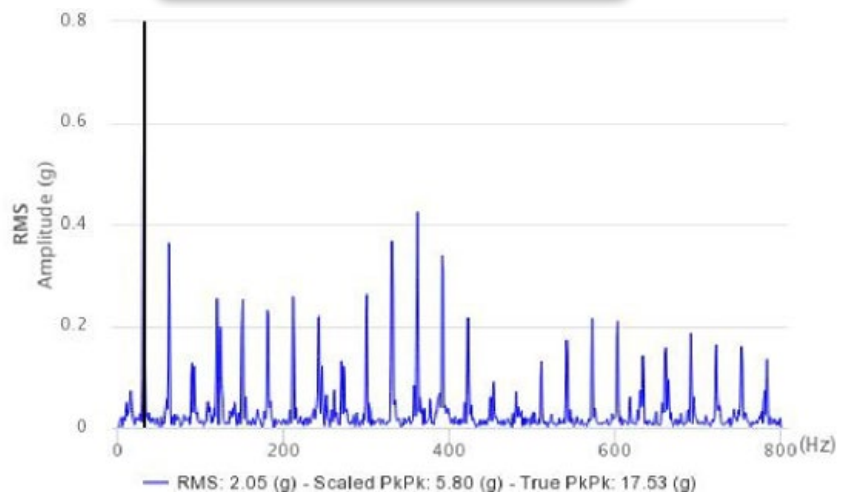
Diagnostic: Mounting Shaft Looseness

Component: Bearing

Recommendation action: The vibration level increased around the bearing resonance frequency in acceleration RMS and harmonics of 1x machine speed frequency were shown on the envelope spectrum. It is normally caused by excessive clearance of the bearings and fixing the looseness between the shaft and the bearing housing.



Tendency Curve



Spectrum Used for Diagnosis