

ATS MACHINE HEALTH MONITORING

Railcar Manufacturer Achieves 8x ROI in Just Two Months

Customer Challenges

1

Moving from preventive to predictive maintenance

2

Eliminating unplanned downtime

3

Implementing IIoT technologies

Monitoring Solution

To help with all customer challenges ATS implemented a machine health monitoring solution. This solution includes sensors that monitor temperature and vibration and give real-time insight into asset health.

The tailored solution includes:



All software, communication network, data storage, installation and system maintenance



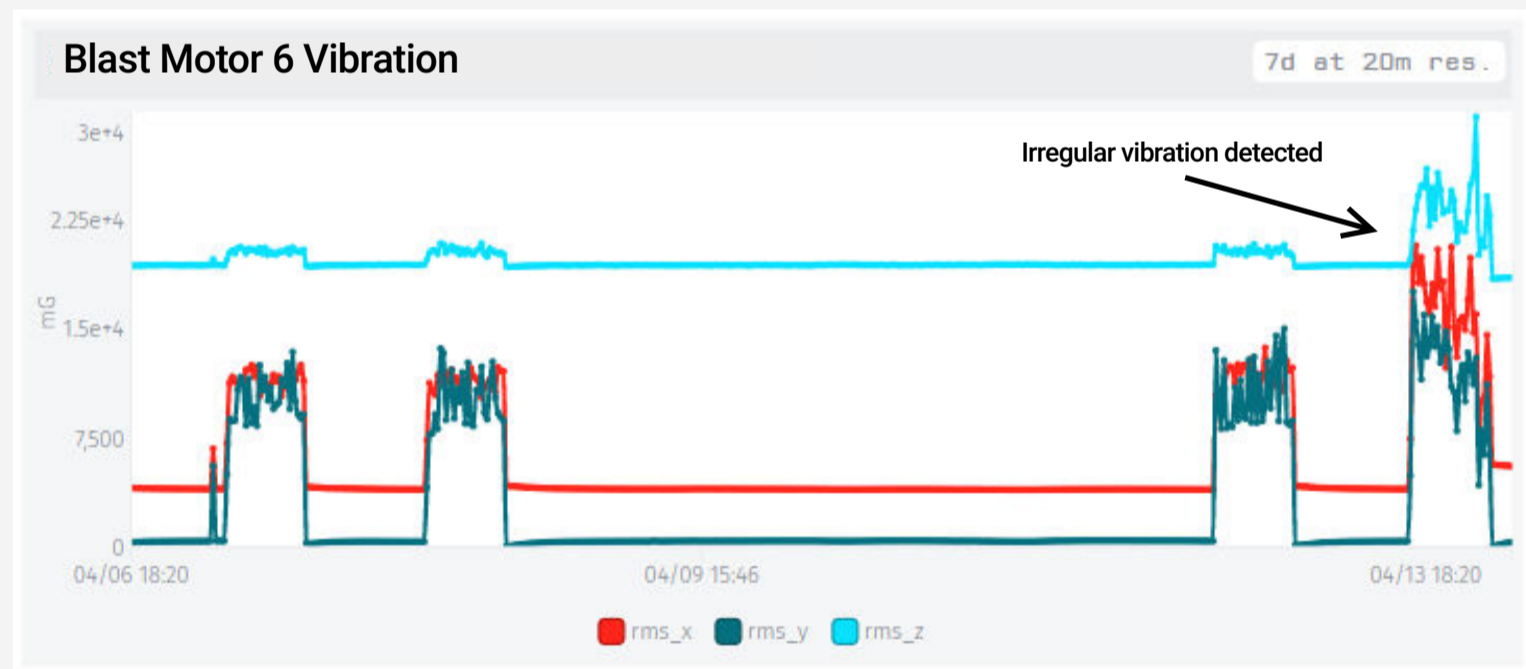
Analysis of vibration and temperature data points



Continuous monitoring and expert guidance from dedicated reliability engineers

Real-Life Example

Irregular vibration on a blaster motor is detected and an alert is sent via email notification to the customer and the ATS Reliability 360® engineers. The engineers analyze the dashboard metrics and provide proactive follow-up task in the plant's CMMS.



Root cause analysis determined bad shot blades caused imbalance, leading to loosening of the bolts. ATS replaced the shot wheel blades outside of production hours utilizing \$300 worth of in-stock parts.

Results were no lost production time, no failure of the \$5,200 motor or the \$14,000 blast wheel assembly, no rush parts costs, and the repair time was only four hours as opposed to 40 hours for a standard motor replacement.

Bottom-Line Success

The annual program price of \$14,000 provided avoided losses of \$19,200 and a 8x ROI within the first two months.



8x ROI

