Vibration Analysis



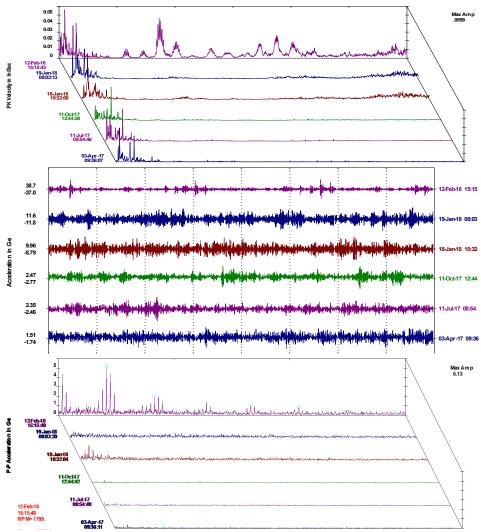
Bearing fault 200 HP Electric motor

Bearing was in service for 10+ years, sudden change in high frequency vibration data

Lubrication was added and data was collected the next day, little to no change after lubrication

Three weeks later the bearing audible noise made a large increase, bearing was replaced

- Trend is your friend
- Slipping belts, lack of lubrication, early bearing fault
- Rapid change in values to the spectrum and waveform
- Bearing cage was found to be cracked
- Peakvue data indicates outer race fault with cage sidebands
- Prevented catastrophic failure of bearing, secondary damage
- New motor was weeks away due to its design criteria
- Potential savings \$50,000+





Midlands Reliability & Consulting LLC Engineered Mechanical Equipment Condition Monitoring Technologies Omaha, NE daver@midlandsrc.com Dave Reynolds: 402.676.5984 www.midlandsrc.com

