

DUST COLLECTORS

MACHINE HEALTH SOLUTION FOR METALS INDUSTRY



THE PROBLEM:

Proper control of excess contaminants through dust collection systems is vital to a clean, safe, and efficient manufacturing process. Failures on these dust collection systems can lead to lengthy downtime and incur unnecessary costs.



COST OF ASSET FAILURES

\$10K/hour
Downtime Cost

8-10 hours
Downtime

\$80K
Cost per incident

INDUSTRY KNOWLEDGE

86
Total Years of Experience

403
Downtime Hours Saved

64
Assets Covered

ASSET BLIND SPOTS:

There are several inherent challenges related to monitoring dust collectors.



Challenge #1: Buildup, which often goes undetected, can cause premature failures.

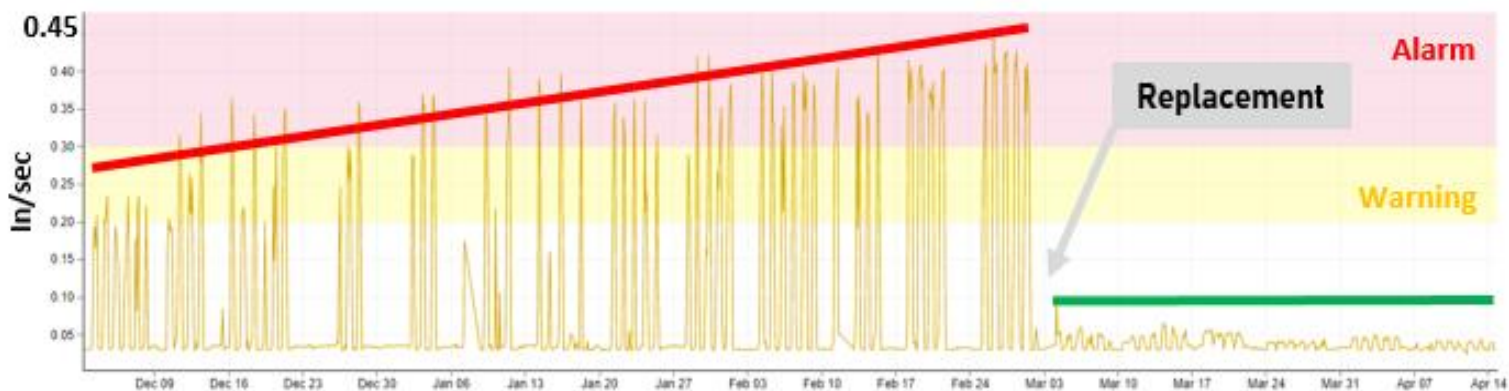


Challenge #2: Defective gaskets and seals will cause inefficiencies that lead to higher operating costs.



Challenge #3: Time-based protocols do not capture poor startup procedures.

A NEW APPROACH TO DUST COLLECTORS



When maintenance and reliability teams receive quick and actionable information regarding their asset health, effectiveness skyrockets and downtime is avoided.

Through continuous monitoring of dust collector motors, bearings, and blowers, KCF is able to identify and help to correct a wide variety of problems that commonly plague dust collection systems, including 1) fan contaminant buildup, 2) defective gaskets/seals, 3) drive bearing wear and damage, 4) drive motor issues, 5) worn diaphragm valves, 6) poor startup procedures, etc.



HARDWARE

- Where will we put sensors and roughly how many?
- Any accessory devices: Hubs, pressure transducer, oil quality probe, motion camera?



SOFTWARE

- 24/7 Continuous Monitoring
- Warning and Alarm Threshold Settings
- Custom Built Indicators
- Dashboards
- Monthly Reports



REAL-TIME DATA

- Comprehensive Machine Health
 - Vibration
 - Temperature
 - Current and Voltage
 - Running Speed
 - VFD Settings
 - Belt ratios
 - Oil Quality
 - Ultrasonic



TRAINING

- Sentry
 - Site visits: 2 times/year
 - In-person training
- Academy
- Customer training/handbooks
- Asset playbook

CONTACT US!

Call **814-867-4097** or email sales@kcftech.com for information.

