THE PROBLEM:

Industrial Pumps are critical machines in mining facilities around the world. Pumps are required to maintain operations and throughput – often used for transport, cleaning, washing, and facilities control.

Maintaining pumps can be challenging. Machinery is exposed to harsh conditions, is challenging to access, and is rarely offline. Unfortunately, failures are common.

COST OF ASSET FAILURES

Up to $30k/hour
Downtime Cost

4-24 hours
Downtime

Long replacement lead times

INDUSTRY SAVINGS POTENTIAL

Average yearly pump failures:

Up to 5 per pump

Up to 15 per facility

ASSET BLIND SPOTS:

There are several inherent challenges related to monitoring Baghouse Fan health:

Challenge #1: Vibration frequencies are often undetectable by the human ear and eye.

Challenge #2: Assets are difficult to access for preventative maintenance and inspections.

Challenge #3: Time-based preventative maintenance is challenging to schedule, conduct, and does not prevent all failures.

A NEW APPROACH TO ASSET HEALTH

Relying on preventative maintenance and occasional inspections do not prevent failures on Industrial Pumps exposed to harsh mine site conditions.

Rugged, wireless vibration sensors installed on critical, problem assets such as Industrial Pumps can be used to continuously monitor health and performance. Real-time data, actionable insights, and alarms are all delivered through KCF Technologies sensor and service packages.

Eliminate pump failures using predictive technology: know exactly when and how to act to avoid disaster.

Above: Wireless, magnetic vibration sensor

HARDWARE

- Monitor drives & bearings
- Rugged, magnetic, wireless
- Easy to install
- Installation packages available
- Measure vibration & temperature
- Advanced sensors are available to track multiple asset health metrics

SOFTWARE

- Setup automated alarms
- Multiple asset health indicators
- Dashboards
- Easy insights
- Advanced analytics

REAL-TIME DATA

- Actionable insights available with:
  - Bearing model numbers
  - Motor nameplates
  - Run speed & VFD information
  - Belt or gear ratios
  - Tooth or vane counts

TRAINING

- Expertise vibration analysis provided with Sentry Solutions packages
  - Regular site visits
  - In-person training
  - Biweekly or monthly reports
- Online KCF Academy portal

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

KCF technologies