







# lames Electric

A Wolseley Company

**Professional Pump Repair** 

4020 8 Street SE, Calgary, Alberta T2G3A7

# **Vibration Analysis**

James Electric Motor Services Ltd. offers one-time or continued/periodic monitoring for fan motors, pump motors, and pumps for every application. We consider this analysis an essential service for critical equipment, as it improves and maintains reliability, safety and production.

A qualified James Electric Service Technician will perform a complete analysis on your motor or pump which includes the following:

#### **Obtain Data**

- Shaft vibration
- · Housing vibration
- Time-waveform analysis
- Phase analysis
- Synchronous vibration peaks
- Asynchronous vibration peaks
- Sub-synchronous peaks
- Critical machine speeds

#### Inspect

Motor, coupling, rotational elements, belts and hardware for:

- Unusual and expected damage/wear
- Looseness
- Misalignment
- Lubrication
- Imbalance
- Terminal motor connections

### Identify

Using data obtained from our analysis we will identify the causes for repair, replacement, or adjustment of the machine.

- Structural resonance
- Hot and cold alignment
- Shaft integrity
- Machine critical speeds
- Gear, blade, and vane disturbances
- · Recirculation & cavitation
- Motor faults (rotor & stator)
- Bearing failures
- Mechanical looseness
- Recurring problems and inconsistent operation

Upon completion of the tests we will provide a written report of the operation and condition of your motors or pumps. If desired we will provide a written quotation of any required repairs.

## **Call for pricing**

Pricing is subject to change based on work required

Please Note: If we determine that the fan motor, pump motor or pump is no longer operational, we can complete the required repairs immediately at the customers discretion. We advise this be done to maintain safety standards.

