

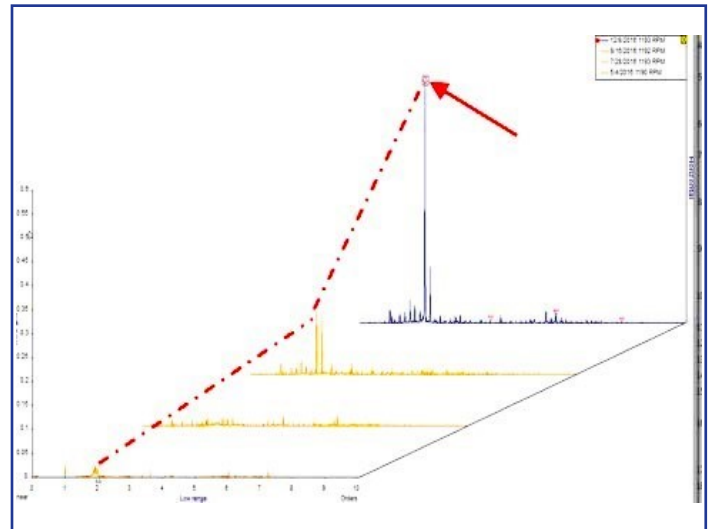
Asset Condition Monitoring Services (ACMS)

The Best Defense is a Good Offense.

To survive in today's economy, companies can't afford unplanned downtime while operational inefficiencies hammer away at profits.

A proactive maintenance program that utilizes effective Preventive Maintenance (PM) plans in conjunction with a Predictive Maintenance (PdM) program, must be implemented. **Matlock Electric's** highly trained ACMS analysts conduct detailed inspections on plant equipment to capture, analyze and effectively use machine condition information to make proper recommendations for corrective actions. Technologies include:

- Vibration Analysis
- Motor Circuit Analysis
- Infrared Imaging Analysis
- Ultrasound Analysis



Inspections with vibration analysis equipment and detailed reporting help identify components in need of repair.

Defend Against Downtime

- ✓ Vibration analysis identifies early bearing defects, misalignment, internal component looseness, imbalance, & more
- ✓ Motor Current Analysis (MCA) will identify damaged electrical insulation & ground faults, power quality issues, etc.
- ✓ Electrical infrared scans identify loose and/or damaged connections, worn fuse clips, knife hinges, and current imbalances.
- ✓ Mechanical infrared scans identify inadequate insulation issues on buildings & ductwork, damaged furnace refractory, and steam system leaks
- ✓ Ultrasound inspections will identify compressed air leaks & gas leaks
- ✓ Monitoring equipment over time allows it's condition to be trended allowing for anticipation of impending failure.

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Benefits of Asset Condition Monitoring

- Reduce unplanned downtime due to equipment catastrophic failure & increase productivity
- Improve maintenance planning and scheduling, you control the repair schedule, not the machine
- Reduce expenditure for spare parts inventory
- Reduce maintenance cost (When a machine fails in service it can cost up to ten times more to repair verses planned and scheduled repairs.)

While the motor is in operation, potential motor problems are identified before they occur, minimizing production lost due to catastrophic motor failure.

Types of Assets that Benefit from ACMS

- Electric Motors
- Gearboxes
- Pumps
- Fans
- Compressors
- Chillers
- Rolls
- Blowers
- Motor Controls
- & other specialty machines

Call Matlock Electric to learn more about ACMS.

