# A Lube Noob's Guide to Condition Monitoring

### **Condition Monitoring**

Measuring specific parameters and noting irregularities or changes that could be early indicators of an impending failure.

- This allows preventive maintenance to be scheduled before serious failures develop.
- Also used to determine how assets will perform and degrade over time.

## Applications



- Rotating Equipment
- Backup or Secondary Systems
- Compressors
- Pumps
- Electric Motors
- Presses
- Internal Combustion Engines Methods
- **Trend Monitoring:** Continuously measuring equipment performance and interpreting the data.
- **Condition Checking:** Periodically measuring equipment performance while the machine is running.

#### Benefits

- Decreased Maintenance Costs
- Reduced Downtime
- Extended Asset Life
- Cost Savings on Resources
- Shift from Reactive to Proactive

#### Techniques

- Vibration Analysis
- Oil Analysis
- Infrared Thermography
- Ultrasound
- Acoustic Emissions

## Types

- **Offline:** Periodically scanning less critical assets to observe their current conditions.
- **Online:** Continuously measuring assets using wireless machine-mounted sensors to acquire real-time insights and warnings.
- **Route-Based:** Intermittently recording data using handheld devices to create a trend pattern and determine if advanced analysis is required.

To learn more about "Breaking Down Condition Monitoring," scan the QR code. www.reliableplant.com/condition-monitoring-31760

