Predictive Maintenance (PdM)

Exterran technicians and reliability engineers are experienced and adept at assessing a machine’s mechanical condition, as well as its performance.

World Class Professional Workforce

Exterran brings a solid reputation backed by decades of service experience to the oil and gas market. Exterran’s highly skilled technicians use an integration of technologies to evaluate your equipment at your site around the world to maximize your equipment runtime.

Our experienced, factory-trained technicians arrive on-site, ready to provide efficient and thorough service on multiple brands of equipment. We regularly provide technical and safety training to our employees and maintain highly competent Ariel, Caterpillar and Waukesha certified technicians in house.

Aftermarket Services

For more information, please contact AftermarketServices@Exterran.com

Periodic or On-Call Machinery Analysis & Monitoring

Exterran’s analysts have the oil and gas industry experience to perform accurate evaluations of the mechanical condition and performance of machinery installed in process plants and/or compressor stations. We safely assess the equipment health by integrating the latest PdM technologies that provide the means to anticipate and plan for repairs more effectively than in the past, including:

- Reciprocating Machinery Performance Analysis
- Vibration Analysis
- Infrared Thermography
- Ultrasonic Leak Detection
- Review of Oil Analysis Reports
- QHSE Assessments Ensure Safe Operations
Infrared (IR) Thermography

> Technique used to monitor electrical, as well as mechanical problems
> Visually displays temperature variations in objects so they can be compared and assessed
> Able to find deteriorating components prior to failure
> Can be used to measure and monitor inaccessible areas of equipment

Ultrasonic Leak Detection

> Technique for detecting air and gas leaks and electrical corona problems by detecting ultrasonic signals inaudible to the human ear
> Visually displays this information on an indicator or via headphones
> Enables detection of leaks as small as 0.5 mm in diameter with only 5 psi of pressure

Vibration Analysis

> Technique used to monitor and analyze vibrations to determine if the machine is working properly, mostly used on rotating machinery
> Used to detect problems such as:
  - Unbalance/imbalance
  - Bearing wear
  - Looseness
  - Belt problems
  - Pulsation
  - Misalignment
  - Cavitation
  - Oil whirl
  - Gear problems
  - Other issues

Reciprocating Machinery Performance Analysis

> Technique used for monitoring reciprocating machinery engines (gas & diesel, 2 and 4 stroke) and gas compressors
> Helps to identify incipient mechanical problems
> Characterizes the engine/compressor operating potential
> Efficiency
> Fuel consumption
> Horsepower
> Throughput
> Valve performance/operation