Diagnostics that reduce maintenance costs.
Chromalloy’s proprietary LifeX Monitoring & Diagnostics solutions provide advanced support for identification of faults.
Condition Monitoring For Gas and Steam Turbines
LifeX Monitoring & Diagnostics continuously evaluates the state of gas and steam turbines by automating the knowledge of the best turbine engineers. It builds up a complete picture of the turbine by performing several thousand fault detection steps every second.

Higher-level diagnostic rules are then used to interpret these faults into a simple-to-read diagnostic summary. A quick check of this gives an overview of what has happened with the turbine in the last shift, day or week.

- Leading-edge technology
- Performance, efficiency and maintenance
- Speed of response
- Comprehensive cover
- Protect your assets
- Corporate-wide solution

System Features
- Sophisticated diagnostics
- Patented temporal pattern matching of faults
- Performance models
- Factored hours and starts calculations
- Vibration diagnostics and display
- Comprehensive graphing and trending
- Historian stores all data forever
- Replay data of past incidents
- Remote access from phone, tablet and laptop
- Automated reports
- Email and SMS notifications

User Benefits
- Detect the first symptoms of a developing problem
- Troubleshoot and bring the turbine back quickly
- Enable condition-based maintenance
- Identify operational and warranty issues
- Enables effective management of risk
- Assist in commissioning
- 24-hour remote monitoring
- Build your own diagnostic and monitoring centre
- Monitor all turbine types
- Reduce travel—diagnose problems from your laptop
- Pool expertise—your engineers contribute remotely
- Reduce costs—increase availability

Key Aspects
- Frequently checking the machine
- Detecting problems at the earliest stage
- Assessing the condition of the machine
- Create a “picture” of the machine's condition

Our Approach
- Processes 2000+ data points every second
- Thousands of fault-detection checks
- Knowledge-based analysis and diagnosis
- Easy-to-read fault manager display

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