Aden

Aden Services
Predictive Maintenance



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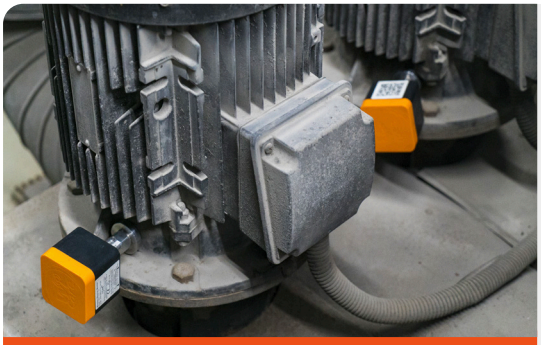
www.adenservices.com

Aden Predictive Maintenance Solutions

Just as the human body sends signals—such as changes in pulse rate, temperature, or voice quality—when it is unwell, equipment too communicates signs of potential failure.

Common indicators like vibrations, temperature fluctuations, and unusual sounds often signal an issue. Much like doctors rely on advanced tools such as CT scans and X-rays for diagnosis, detecting equipment faults requires sophisticated technology to ensure precise identification and timely intervention.



Vibration Signal Detection Services

Vibration Signal Detection:

Vibration analyzers diagnose equipment by assessing vibration patterns, which can reveal both the type and severity of faults within the machinery.

Temperature Signal Detection:

Infrared thermography assesses equipment health by capturing temperature variations, helping to identify potential issues.



Infrared Thermography Inspection Services



Ultrasonic Detection Services

Sound Signal Detection:

Ultrasonic detectors analyze high-frequency sound waves to assess equipment conditions, including lubrication levels, leakage, and partial discharge.

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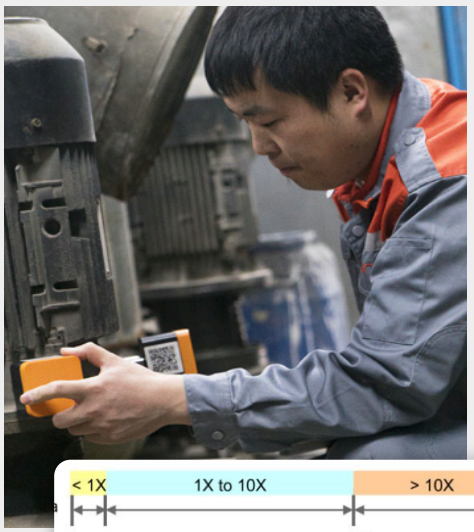
Vibration Analysis Services

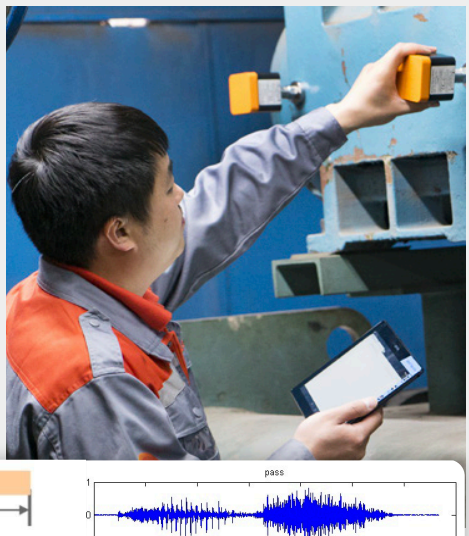
Rotating machinery fault diagnosis services: Covers a wide range of equipment including motors, water pumps, fans, air compressors, refrigerators, and more, with the capability to detect vibrations at the early stages of failure.

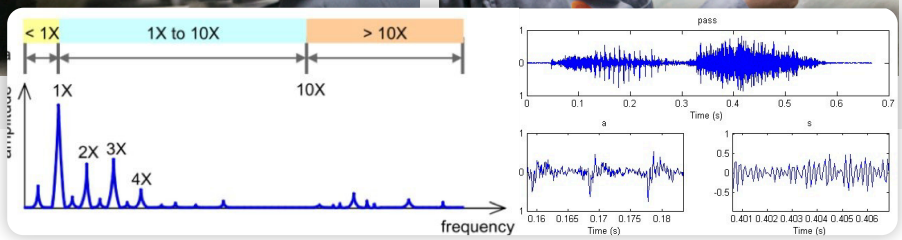
Our Offerings:

- Precise diagnosis of various faults, including misalignment, imbalance, looseness, resonance, bearing issues, and more.
- Tailored maintenance recommendations based on the condition of the equipment.
- Improved reliability and reduced maintenance costs









Standards & Regulations

GB/T 6075.1 - 2019 : "Mechanical Vibration – Measurement and Evaluation of Vibration of Machines on Non-Rotating Parts – Part 1: General Principles"

GB/T 11348.1 - 2019 : "Measurement and Assessment of Radial Vibration of Rotating Machinery Shafts – Part 1: General Principles"

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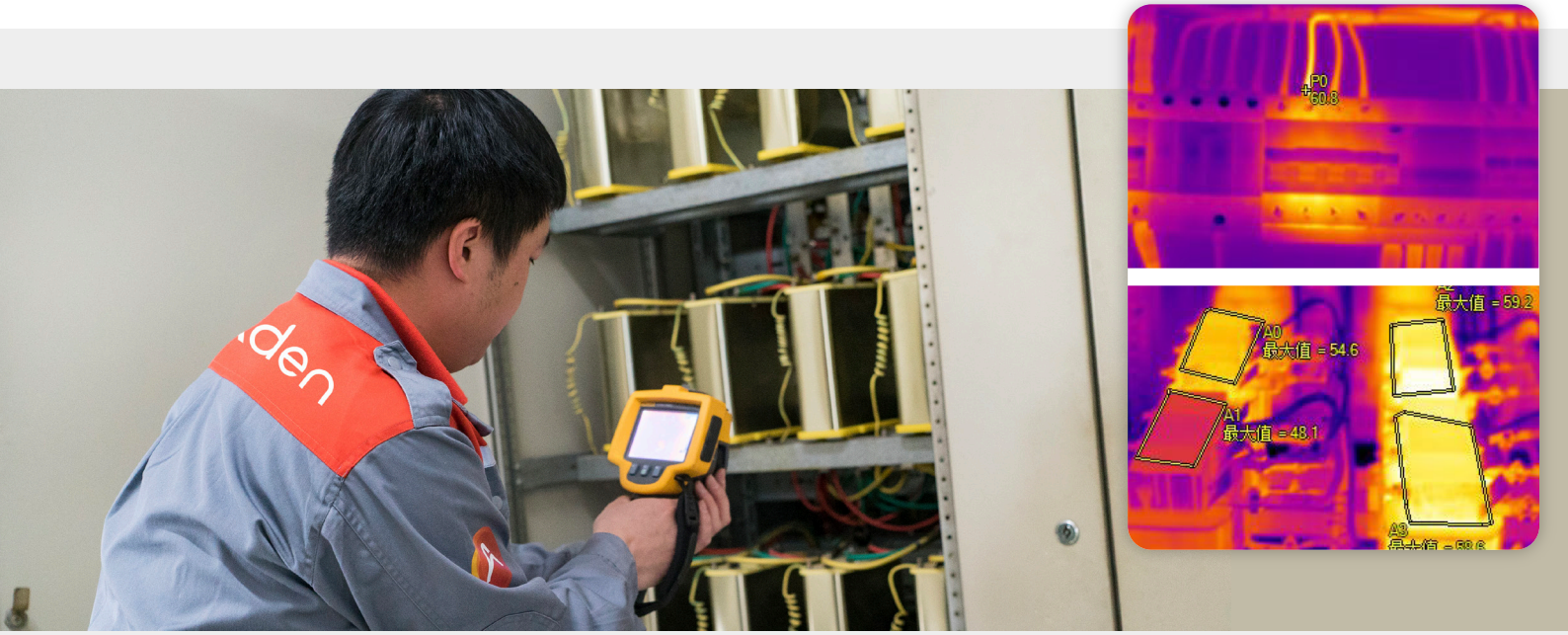
Infrared Thermography Inspection Services

Thermal imaging detects temperature variations in equipment, inspects electrical overheating, monitors motor temperatures, assesses cable insulation issues, and identifies hidden faults in building systems, thereby enhancing safety and efficiency while preventing failures.

Our Offerings:

- Dedicated technician expert for operations
- Clear and detailed reporting system with recommendations
- Non-intrusive solutions, safe



Standards & Regulations

DL/T 664: "Application Specifications for Infrared Diagnostics of Live Equipment"

GB/T 28706-2012 : "Non-destructive Testing – Infrared Thermography Testing Methods for Mechanical and Electrical Equipment"

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Ultrasonic Detection Services

Our services include compressor air leakage detection, bearing lubrication inspection, electrical partial discharge detection, and sealing inspections, ensuring comprehensive monitoring of critical systems for optimal performance and safety.

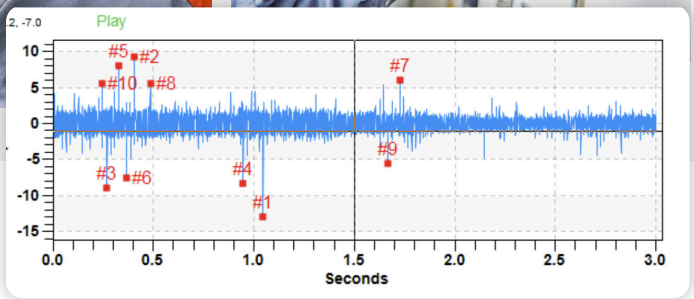
Our Offerings:

- High-sensitivity sensors for real-time fault detection.
- Predictive trend analysis using big data algorithms.
- Recording and analyzing diagnostic signals.
- Clear reporting with actionable recommendations; operations are convenient, fast, precise, and safe.









Standards & Regulations

GB/T 11343-2008 : "Contact Ultrasound Oblique Angle Testing Method"

GB/T 27664.1-2011 : "Non-destructive Testing – Performance and Testing of Ultrasonic Testing Equipment – Part 1: Instruments"

- Reduce Downtime
- Lower Maintenance Costs
- Extend Equipment Lifespan
- Improve Safety & Compliance
- Enhance Efficiency & Energy Optimization
- Data-Driven Decision Making

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