



NIKHAM
ENERGY

CONDITION BASED MAINTENANCE

A Global Force. Your Turnkey Solution. Our Energy.



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**MAINTENANCE
INSPECTIONS**



ULTRASOUND



VIBRATION MONITORING



OIL ANALYSIS



IR THERMOGRAPHY

CONDITION BASED MAINTENANCE (CBM)



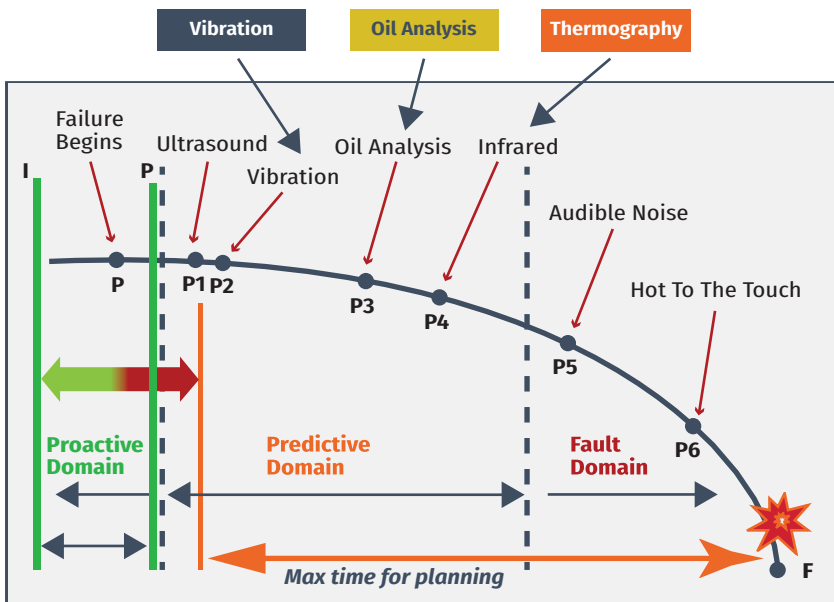
Empowering Performance through Vibration Analysis

Precision and reliability reign supreme in the world of Oil & Gas and Marine Operations. Nikham Energy introduces Condition Based Maintenance (CBM). At its core is Vibration Analysis, a revolutionary technique that proactively pinpoints mechanical and electrical faults, ensuring seamless operations.

Understanding Vibration Analysis

Vibration analysis investigates the operational conditions and status of rotating machinery and structures. This provides insight into the condition of the equipment, identifying anomalies and wear-and-tear patterns that could lead to breakdowns.

The Advantages of a Functional Predictive Maintenance Programme



By detecting the “**Root Cause Failure**” of a component as early as possible, the time for corrective action is increased therefore avoiding a reactive failure.

Your Proactive Maintenance Partner for Oil and Gas and Marine Industries.



Why Choose Vibration Analysis?

Vibration Analysis isn't just a tool - **it's a strategic advantage:**

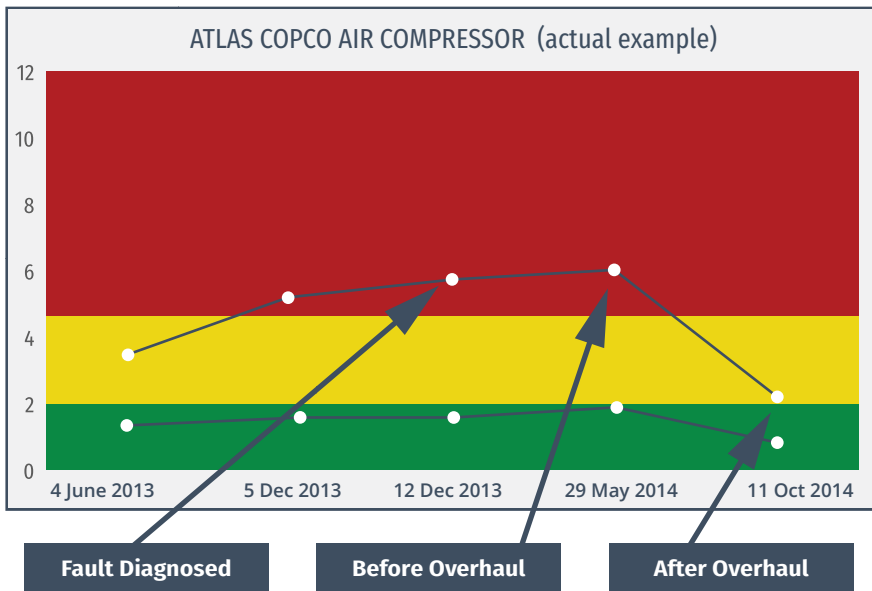
- **Early Issue Detection:** Catch problems before they escalate, minimizing downtime and preventing breakdowns.
- **Proactive Maintenance:** Address issues before they impact operations, reducing reactive fixes.
- **Optimized Resource Allocation:** Allocate resources efficiently, saving on labor, maintenance, and costs.



Advantages of Vibration Analysis

- Save Unplanned Production Downtime
- Plan Strategic Outages
- Streamline Maintenance Costs (Preventive Measures)
- Utilize Labor Efficiently (Unplanned Overtime)
- Ensure Availability of Planned Spares
- Minimize Risk of Component Damage

Plant & Machinery Condition Monitoring Using Vibration Analysis Trending



Consider a Coca Cola refrigeration compressor. A "Root Cause Failure" was identified through meticulous Vibration Analysis Trending: Main Compressor Drive Bearings. By detecting this issue early on, the customer was empowered to plan the repair during a suitable production downtime window. Regular surveys over a 3-month production running time saved our client substantial cost in preventing downtime.

Harness Precision with Infra-Red Thermography (IR)



Experience the world of Infra-Red Thermography (IR), a technology that uncovers hidden issues within systems. Discover why IR is a game-changer for industries.

What is Infra-Red Thermography (IR)?

IR harnesses thermal imaging to detect temperature variations. By visualizing thermal patterns, IR uncovers hidden inefficiencies, optimizing performance.

Why Choose Infra-Red Thermography (IR)?

IR offers advantages:

- **On-Site Insight:** Conducted on-site, IR provides real-time understanding.
- **Independent Analysis:** Data-driven insights inform decisions.
- **Certified Technicians:** Certified experts identify and recommend actions.
- **Asset Insurance Certification:** Certified documentation supports insurance.
- **Certified Fault Reports:** Transparent reports detail issues.



Discover Potential with Ultrasound Technology



ULTRASOUND

Explore Ultrasound, a diagnostic tool that uncovers equipment details beyond human hearing. Early detection empowers issue resolution.



Why Choose Ultrasound Technology?

Ultrasound offers:

- **Critical Component Insight:**
Deep understanding of transformer conditions.
- **Proactive Issue Detection:**
Address anomalies before disruption.
- **Prevent Unplanned Downtime:**
Proactive approach prevents costly downtime.
- **Optimized Maintenance Strategies:**
Insights enhance reliability.



We Believe in Delivering Quality & Satisfaction



OIL ANALYSIS

Precision with Laboratory Oil Analysis

Experience advanced diagnostics with Oil Analysis.

Ensure longevity and reliability of transformers and equipment.

Understanding Laboratory Oil Analysis

Analyze oil composition for hidden issues, empowering informed action.

The Art of Accurate Results

- **Individual Specimen Bottles:**
Eliminate contamination risk.
- **Detailed Identification:**
Mark samples for clear identification.
- **Contamination Prevention:**
Ensure clean sample accessories.
- **Precision Vacuum Extraction:**
Accurate sampling method.
- **Minimize Latent Contamination:**
Source "free flow oil" samples.

Elevate Confidence with Nikham Energy:

Contact us to optimize equipment health. Your path to precision starts here.



Nikham Energy PROVIDES the SOLUTION



Need a Quote CONTACT US



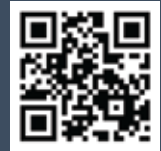
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RMS-0708-803-00