



PearlStreet

INTEGRATED CONDITION MONITORING

- Are you optimising your plant's availability and performance levels?
- Are you undertaking predictive and proactive maintenance of your plant and equipment?
- Do you know when your assets need replacing?

WHAT DOES PEARLSTREET DO?

- As Australia's largest integrated condition monitoring service provider, with over 30 years of experience, we deliver integrated condition monitoring using the 'right' mix of technology, aimed at understanding the way specific component failures are occurring and their impact on your operation. Our approach is based on ISO 17359-2003.
- We help you develop integrated condition monitoring plans and provide staff training, relief assistance and auditing.
- We also perform rotating equipment acceptance testing, on-site commissioning and alignment and field balancing.

VIBRATION MONITORING

Most components, stationary or rotating, move about a reference point. Like a doctor measuring your heartbeat, PearlStreet is able to measure and analyse vibrations to accurately diagnose machinery and structural conditions. Vibration analysis will diagnose developing or pre-existing conditions such as:

- Machinery unbalance
- Misalignment
- Looseness
- Bearing defects
- Gearing defects
- Lubrication problems
- Structural vibration
- Motor defects
- Environmental and construction/demolition vibration impact

THERMOGRAPHY

All objects emit electro magnetic energy. PearlStreet uses thermography to accurately measure the amount of electro magnetic energy allowing us to identify thermal variations normally not visible to the naked eye.

Applications include:

- Electrical equipment – poor connections or contacts, overloading, unbalanced loads.
- Boilers/steam systems – refractory/insulation breakdown
- Process equipment – location of solid, liquid and gas levels in tanks and vessels, scale build-up and blockages in pipelines, defective valves, hot/cold air leaks.
- Mechanical equipment – conveying systems, bearings, seals, drive belts, drive trains, turbo equipment, coupling problems, open gear integrity, crushers, screens and pumps.

PearlStreet is a leading provider of testing, inspection and asset care services to the energy, resources and infrastructure sectors.

Corporate Offices: Perth 08 9327 7500 • Melbourne 03 9674 6100 • Brisbane 07 3718 0300

Visit www.pearlstreet.com.au for branch office contact details.



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INTEGRATED CONDITION MONITORING - cont

OIL & WEAR DEBRIS ANALYSIS

PearlStreet analyses oil samples using spectrometric analysis with ferrographic and other techniques. When used with other condition monitoring techniques, the results can very accurately determine failure modes.

NON DESTRUCTIVE TESTING (NDT)

A vital part of any integrated condition monitoring program is NDT to detect cracks, leaks, corrosion, etc. PearlStreet is Australia's leading NDT provider.

WHAT YOU CAN EXPECT FROM US

- Measurable operational benefits
- Comprehensive range of technology
- Fully integrated approach that forms part of your overall asset management strategy
- National coverage

ASSOCIATED SERVICES

- Engineering & Materials Consultancy
- Asset Management
- Non Destructive Testing
- Inspection
- Heat Treatment
- Plant Shutdown Planning & Execution

WEB-BASED REPORT VIEWER

PearlStreet's WebReports is a web-based report viewer to manage information generated from plant and equipment condition monitoring.

Features include:

- Central repository for all current and historical condition monitoring information
- Colour-coded view of the current status of all components on a single screen
- Maintenance prioritisation based on equipment criticality and problem severity
- Work order tracking originating from condition based maintenance recommendations
- Integrated environment with drill-down access to vibration analysis, oil analysis, thermography, alignment and non destructive testing (NDT) reports

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