



CMS

CONDITION MONITORING

Preventative Maintenance Systems Management

CMS 
condition monitoring services

KOMATSU
Driven by your success



WHAT IS CONDITION MONITORING?

Condition Monitoring is the process of monitoring a machine's health to identify changes in wear trends that may indicate a developing fault.

Our services include:

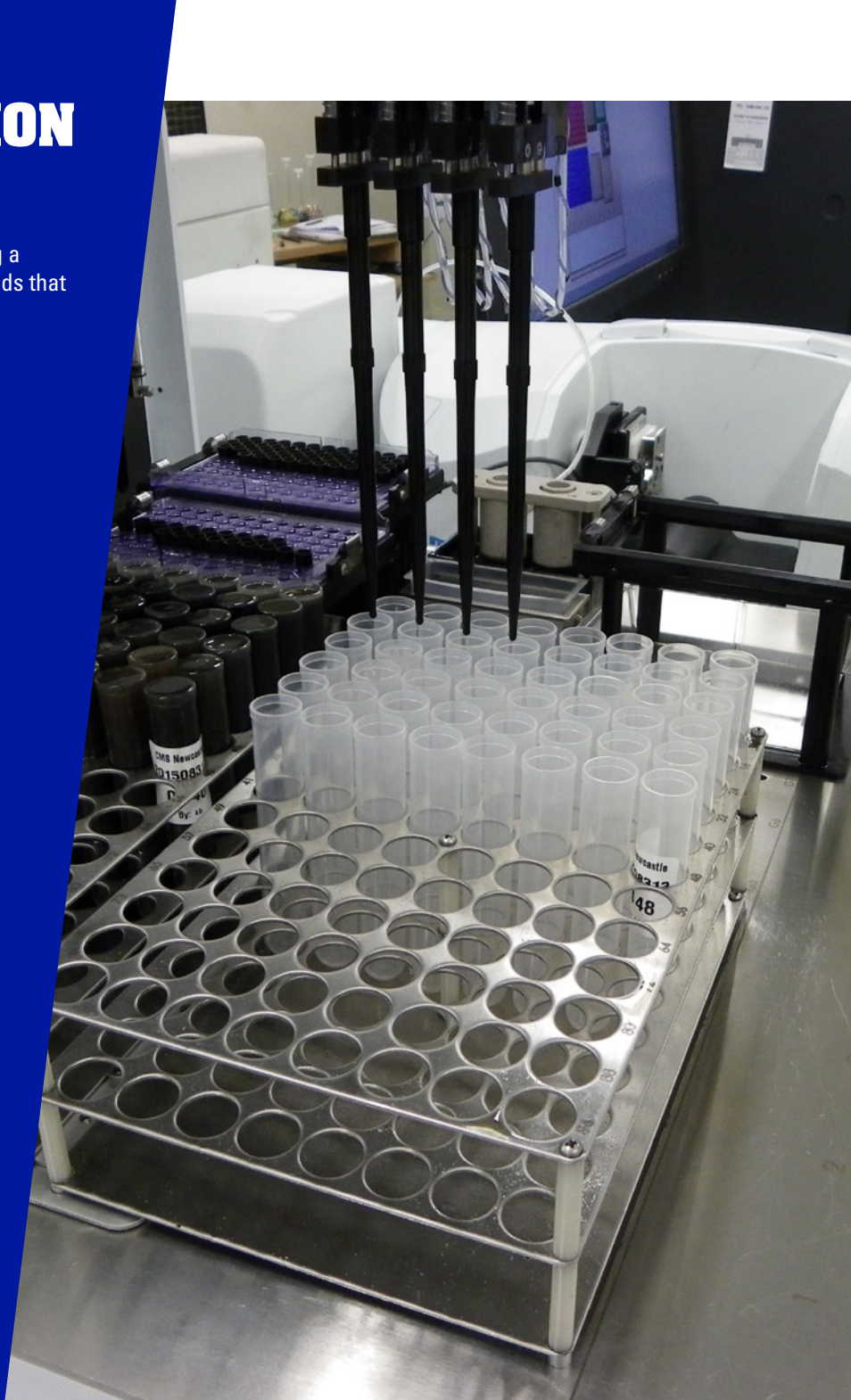
- » KOWA – Komatsu Oil Wear Analysis
- » Coolant, Grease and Vibration Analysis
- » Metallurgical Testing and Evaluation
- » Thermal Imaging
- » Scanning Electron Microscopy (SEM)
- » Non-Destructive Testing (NDT)
- » Positive Material Testing (PMT)
- » Fuel Burn
- » Oil Consumption
- » Tyre Inspection and Measure
- » Site Audits
- » Online reports for quick results

Komatsu Condition Monitoring Services takes a holistic approach when providing analysis to its customers.

WHO USES IT?

It's not only Komatsu equipment that can benefit from our expertise. 40% of our inspections come from non-Komatsu machines, such as; mobile constructions, fixed plant, heavy transport equipment, automotive equipment, oil/gas exploration, building sector or general purpose. Anyone who has equipment they rely on to get the job done can access the Komatsu service.

Komatsu provides our Condition Monitoring Service (CMS) in both Australia and New Zealand, through our three labs located in Perth, Brisbane & Newcastle.



WHY USE CMS?

Choosing Komatsu's Condition Monitoring Services (CMS) is easy. Minimising abnormal wear and damage from contaminants and avoiding catastrophic failures will ensure your costs are controlled and machine productivity is maximised.

The primary purpose of Condition Monitoring is to monitor working machines. The information extracted from the analysis process provides valuable indicators on the maintenance required and when it needs to be done. This encourages a structured maintenance plan and accurate budget forecasting.

PREDICT THE FUTURE

Komatsu Oil and Wear Analysis (KOWA) is the spearhead of our Condition Monitoring Services (CMS). Your equipment is the lifeblood of your business and KOWA works like a blood test for your machine. The results gained from analysing the impurities and contaminants found in, for example, your engine, transmission or hydraulic oil is fundamental to predicting early life failure or abnormal wear rates. This is one test your equipment cannot afford to miss.

Using oil analysis provides high integrity data that can enhance maintenance planning and forecasting. Unlike other testing systems, KOWA actually analyses the operational variables to provide a more accurate report. For example, two identical machines operating in different

environments may produce varied KOWA test results. If these variables are not considered within the analysis, the accuracy of the report may not be precise and result in unnecessary repairs or component failures.

KOWA is industry leading and can accurately detect trend changes or detect contaminant problems. In the lab we identify microscopic contaminants in your lubricants, coolant, grease and run these results against your machine history to attribute specific wear trends. This preventative diagnostic process, combined with your scheduled maintenance will help avoid expensive and unscheduled down times.

MYKOMATSU

my.komatsu.com.au is a single doorway to your Komatsu data
myKomatsu is a free, user friendly, 24/7 online portal that allows access to your equipment's KOWA data and reports anytime anywhere.

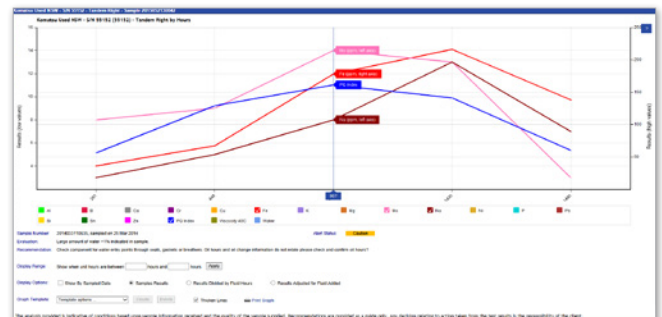
This service allows you to browse your full sample history and results, create sample cards quickly and easily, as well as providing other online tools to help you better view and understand your report data. Access to this information will help you to better identify problems and manage machine performance.

myKomatsu Advantages

- » Instantly see your oil sample results in a detailed report
- » Available 24/7, anywhere you are
- » You are in control of what you see and how it is delivered to you
- » Detailed reports to give you the big and small picture of what is happening to your machines



Pictured above: Sample details and history



Pictured above: Component history graph

FIX IT BEFORE IT HAPPENS

In an industry where downtime can result in significant financial loss, leave nothing to guesswork when maintaining your hardworking equipment. Komatsu CMS provides the know-how and technology to give tailored feedback to all aspects of your operation.

Through an extensive suite of analysis and reports, Condition Monitoring provides a regular health check for your equipment. By enlisting the services of the industry leader, you're identifying warning signs and issues, to prevent premature and unexpected component failure. Not only is prevention better than the cure, it also minimises downtime and costs.

Komatsu takes into account your specific working conditions and the unique application of your equipment to provide an up-to-the minute snapshot of your operation.

To arrange for a free condition monitoring consultation, contact Komatsu today. Our trained professionals can perform an initial site audit to evaluate the level of analysis required and calibrate the tests to ensure results have taken your individual factors into account.

For more information, contact your local Komatsu branch today or visit www.komatsu.com.au.





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