



**CMS** 

# CONDITION MONITORING SERVICES

Preventative Maintenance Systems Management



[my.komatsu.co.nz/condition-monitoring](https://my.komatsu.co.nz/condition-monitoring)

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# 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. Komatsu Condition Monitoring Services (CMS) offers a wide range of sampling, testing and analysis services to give you a complete picture of what's happening inside your equipment and any issues that may be about to arise.

Komatsu CMS services include:

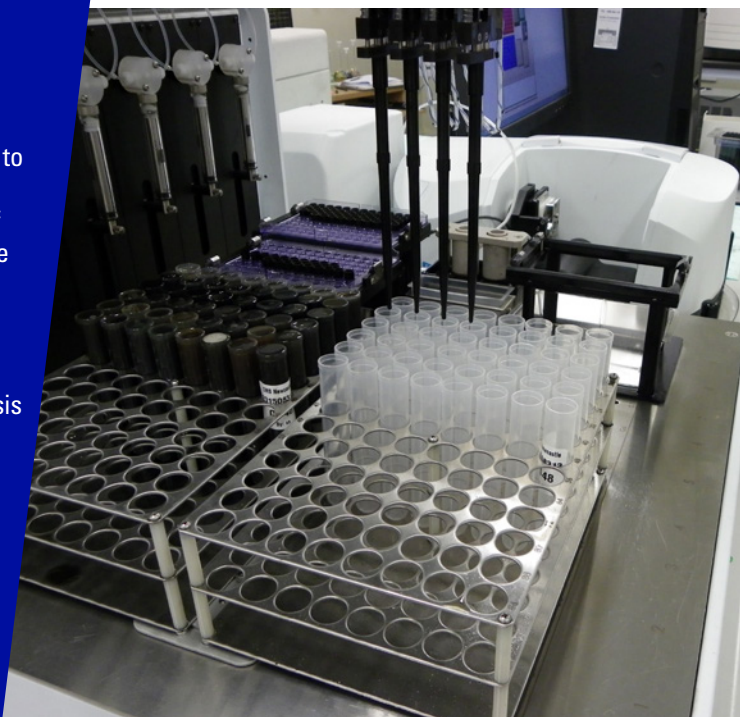
- » KOWA (Komatsu Oil Wear Analysis), covering sampling and analysis of all types of oils and lubricants, diesel fuel, filters and coolants
- » Metallurgical testing and evaluation
- » Thermography (Thermal imaging)
- » Positive Material Testing (PMT)
- » Non-Destructive Testing (NDT)
- » Water waste analysis
- » Vibration analysis
- » Site Audits

As soon as our analysis has been completed (within 24 hours of arriving at a CMS lab in the case of a KOWA oil sample), we provide online and emailed reports so you can quickly respond to any issues. Komatsu CMS can assist you with identifying and resolving a range of equipment-related issues, such as fuel burn.

Komatsu CMS always takes a holistic approach when providing analysis for our customers, so we are able to advise on the complete picture of what is going on inside your equipment or machinery.

As soon as your sample reports are ready, they are emailed or posted direct to customers as a PDF, as well as being available through the new CMS website at: [my.komatsu.co.nz/condition-monitoring](http://my.komatsu.co.nz/condition-monitoring). Customers can also be alerted via SMS that their reports are available.

If our analysis identifies a potentially critical issue, we will contact the customer urgently to advise them what action should be taken.



## WHO USES KOMATSU CMS?

Not only Komatsu equipment will benefit from our expertise. More than 40% of our analysis and testing is for non-Komatsu equipment, including other makes of construction and mining equipment, along with other mobile and fixed plant, heavy transport equipment, automotive equipment, oil and gas exploration, the building industry, marine equipment, and the industrial sector.

Anyone operating powered equipment that needs to be quickly, efficiently and easily monitored for maintenance and reliability planning can use Komatsu CMS.

Komatsu CMS operates three labs located in Brisbane (Queensland), Newcastle (New South Wales) and Perth (Western Australia), servicing customers throughout Australia, New Zealand, New Caledonia and Papua New Guinea.

## WHY USE KOMATSU CMS?

Komatsu Condition Monitoring Services (CMS) are designed to save you time and money by monitoring the health and condition of your equipment through regular monitoring of lubricants and fluids used in key components.

The benefits of using Komatsu CMS include preventing premature component failure, which virtually eliminates unscheduled machine downtime, and extending the life of machine components, while reducing the chances of expensive failure costs.

At Komatsu CMS, we have the knowledge, capabilities and technologies to meet all our clients' ongoing service and maintenance needs.





# PREDICT THE FUTURE

Komatsu CMS's KOWA (Komatsu Oil and Wear Analysis) is the spearhead of our services, and includes testing and analysis of oils and lubricants, diesel fuel and coolants. Your equipment is the lifeblood of your business and KOWA acts as a blood test for your machine.

The results gained from analysing the impurities and contaminants found in your engine, transmission or hydraulic oils are fundamental to predicting early life failure or abnormal wear rates. These are essential tests your equipment can't afford to miss. Using KOWA ensures you have high integrity data that will enhance your maintenance planning and forecasting.

And unlike many other testing and analysis systems, KOWA actually analyses your operational variables to provide a more accurate report.

For example, two identical machines operating in different environments may produce varying KOWA test results. If these variables are not considered as part of the analysis, the accuracy of the report may not be precise and result in unnecessary repairs or unscheduled component failures.

Our Komatsu CMS lab technicians, who have many years' experience working with heavy equipment can analyse your test results and assist you to accurately detect trend changes or contaminant problems.

Our labs identify microscopic contaminants in your oils and lubricants, diesel fuel and coolant, and compare these results with your machine history to attribute specific wear trends.

This preventative diagnostic process, combined with your own scheduled maintenance program is a major resource in avoiding expensive and unscheduled downtime.



# CMS WEBSITE

Now part of the myKomatsu online customer portal, the Komatsu CMS website ([my.komatsu.co.nz/condition-monitoring](http://my.komatsu.co.nz/condition-monitoring)) is a single doorway all the data generated through KOWA and other analysis and testing. Accessed via your own username and password, it gives you access to your equipment's KOWA data and reports anytime anywhere.

You can browse your full sample history, trends and results, create your own customised sample cards quickly and easily, as well as accessing other online tools to help you better view and understand your report data – which you can also customise to meet your own needs.

Access to this information is key to better identifying equipment problems and managing machine performance.

## Advantages of the new CMS website

- » Instantly see your oil sample results in a detailed report
- » Available 24/7, wherever you are, on desktop, tablet or smartphone
- » You are in control of what you see and how it is delivered to you
- » Detailed reports can be customised to give you the big and small picture of what is happening to your machines, in a form that best suits your needs.



# FIX IT BEFORE IT HAPPENS

In an industry where unscheduled downtime can result in significant financial loss, leave nothing to guesswork when maintaining your essential equipment.

Komatsu CMS provides the know-how and technology to give tailored feedback across all aspects of your operation.

Through our extensive suite of analysis and reports, Komatsu CMS gives you a regular health check for your equipment.

By using our industry leading services, you can identify warning signs and issues, to prevent premature and unexpected component failure, minimising downtime and costs.

Komatsu CMS understands your specific working conditions and the unique application of your equipment to provide an up-to-the-minute snapshot of the equipment that's so critical to your operation. For a free condition monitoring consultation, contact Komatsu CMS today.

Our trained professionals can perform an initial site audit to evaluate the level of analysis required, then develop customised and calibrated tests that ensure results take your individual factors into account.

For more information, visit:  
[my.komatsu.co.nz/condition-monitoring](http://my.komatsu.co.nz/condition-monitoring)





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