

# KOMATSU

## Condition Monitoring Services

Preventative maintenance systems management



# 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) are designed to save you time and money by monitoring the health and condition of your equipment through a wide range of services to give you a complete picture of what's happening inside your equipment.**

### **Komatsu CMS services include:**

- » KOWA (Komatsu Oil Wear Analysis), covers 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

## Why use Komatsu CMS?

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.

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.



## Our KOWA service

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.










Once the sample has been taken using the correct KOWA kit, the sample is sent to one of our CMS labs. Once analysed, we email you easy to read reports, so you can quickly respond to any issues. 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.

## Our range of KOWA samples

 <p><b>P/N: KOWA-OILCM</b> Oil test kit - vacuum Tests include: ICP analysis, FTIR analysis, viscosity, PQ index, fuel, water</p>	 <p><b>P/N: KOWA-ANBNM</b> Acid/base number kit Includes standard oil analysis as well as both acid and base numbers for engine oil and acid number for transmission</p>
 <p><b>P/N: KOWA-COOLANTCM</b> Coolant test kit Glycol, pH, conductivity, anions, colour, clarity, visible solids, ICP analysis</p>	 <p><b>P/N: KOWA-RULERCM</b> (National part number) RULER + MPC Includes KOWA-oil plus highlighting measurements of hindered phenolic and aromatic amine antioxidants</p>
 <p><b>P/N: KOWA-LIVECM</b> Oil test kit - live ICP analysis, FTIR analysis, viscosity, PQ index, fuel, water</p>	 <p><b>P/N: KOWA-DIESELCM</b> Diesel fuel test kit Includes KOWA-oil tests plus, moisture by Karl Fischer, density, colour; bacteria/fungi</p>
 <p><b>P/N: KOWA-FILTERGRAMCM</b> Filtergram report kit Optical microscopy. Includes KOWA-Oil tests and contains at least two highly magnified images of particles considered important to equipment maintenance procedures.</p>	 <p><b>P/N: FD90VALVE2LP</b> Live Sample Valve 1/8" – 27TPI NPT male thread.</p>
	 <p><b>P/N: KOWA-GUN</b> KOWA Vacuum Gun Standard vacuum sampling gun</p>

## CMS Website

Report data can also be easily accessed via the Komatsu CMS website ([my.komatsu.com.au/condition-monitoring](https://my.komatsu.com.au/condition-monitoring)) - giving 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 – access to this information is key to better identifying equipment problems and managing machine performance.







---

## For more information:

### Australia

Ph: 1300 199 054 | Web: [my.komatsu.com.au/condition-monitoring](https://my.komatsu.com.au/condition-monitoring)

### New Zealand

Ph: 0800 433 116 | Web: [my.komatsu.co.nz/condition-monitoring](https://my.komatsu.co.nz/condition-monitoring)

**KOMATSU**

