



# Online condition monitoring services for gears

Extend gear life and reduce unplanned downtime

## Optimise gear health and efficiency

Online condition monitoring services for gears continuously monitors all aspects of your gear unit, so you can address issues at the right time and reduce maintenance costs.

Sensors gather relevant operating data from the gear unit and send it to our team of experts, who continuously supervise and report significant changes or problems.

### With Level I service, we monitor:

- Bearing temperatures
- Gear and bearing vibrations
- Oil outlet temperature
- VRM table wobbling and tilting

### With Level II service, we monitor all of the above plus:

- Torque and speed at gear input shaft
- Particles in the oil

This service monitors symptoms that can't be detected by regular maintenance alone and it complements on-site preventive maintenance. Our gear specialists interpret the data and give you recommendations and solutions to achieve optimum gear health.

Identifying issues early gives you time to act before failure occurs. You can source parts and make sound decisions based on reliable, insightful data.

- **What?** Continuous gear health monitoring and incident support; regular reports summarising alarms and maintenance recommendations; trend analysis and frequency spectra.
- **Outcome:** You can predict failures that are not possible to predict with on-site preventive maintenance alone. You can therefore take timely action to significantly reduce the chance of gear failure.
- **Case:** Enhanced data analysis from this service detected a bevel gear bearing failure at a very early stage. In contrast, regular maintenance can detect this type of failure only just before it becomes serious, giving you little time to source spare parts and organise maintenance. Identifying the defect early meant production could continue until a replacement gear was on site.