

# Condition monitoring services

SKF Reliability Systems is a leading manufacturer of vibration analysis products, providing unparalleled know-how in plant condition monitoring.



Condition-based maintenance is an effective strategy to defend against the risks of unplanned equipment failures. The success of this strategy is entirely dependent upon a professionally run condition monitoring programme. The prevention of catastrophic failures will avoid production output losses, as well as reducing the direct and indirect costs of unplanned downtime. An effective condition monitoring programme will therefore reduce overall maintenance costs, improve safety, increase plant availability and enhance product quality.

Condition monitoring can assess machine condition to determine when maintenance should be performed. By periodically monitoring equipment operating parameters, using techniques such as vibration analysis, oil analysis and thermography in combination with process data, problems associated with specific machines can be detected and predicted early enough to allow planned maintenance intervention or repair.

The principles of condition monitoring often seem to be straight forward enough, but the technology is often misunderstood or badly applied. A combination of measurement parameters, appropriate to the machine operating conditions and failure characteristics, will be required to gain good diagnostic information.

Accurate analysis of the data and effective recommendations for corrective actions must be based on sound engineering judgement and good plant experience. SKF Reliability Systems can offer all the predictive techniques required, as well as a 100 year heritage of applications engineering know-how, to ensure the most effective decisions can be provided.

## **On-site service agreement**

A full range of on-site condition monitoring services are available from SKF. This includes full service agreements where SKF provide the on-site staff (part-time or full-time), the condition monitoring technology, programme design, implementation and management using an agreed set of performance KPI's.

## **Supervisory service agreement**

Here, SKF will support and train your own staff to improve the effectiveness of your on-site condition monitoring programme.

Specialist trouble shooting and consultancy services are also available from SKF on request.

## **Remote diagnostic services**

In many cases, the optimum performance is achieved by using plant technicians to collect the machine data, combined with remote analysis and reporting via SKF expert analysts, working within the network of SKF Remote Diagnostic Centres (RDC) network.



## SKF technology

SKF Reliability Systems can implement and support the effective use of on-line and portable condition monitoring systems. SKF condition monitoring systems provide a fully integrated platform, with a consistent upgrade path to ensure machine diagnostic history is maintained.

All SKF condition monitoring products are incorporated within SKF @ptitude Monitoring Suite, including all portable, on-line and protection system hardware, as well as @ptitude Inspector, @ptitude Analyst and @ptitude Observer software.

When used together with the revolutionary SKF @ptitude Decision Support software, this provides full EAM/CMMS integration.

SKF are a leading provider of hand-held plant inspection systems, which can replace operator clipboards for watchkeeping rounds, allowing all plant information to be shared within one software system.

## Performance guaranteed

SKF Reliability Systems staff undergo intensive training and utilise auditable and verifiable quality work instructions to ensure high levels of quality assurance at all times.

SKF Reliability Systems offers condition monitoring services as an integral part of Proactive Reliability Maintenance (PRM) agreements, under which SKF Reliability Systems staff drive the continuous improvement activity on-site to eliminate repetitive failures and maximise plant efficiency.

## SKF (U.K.) Limited

T: 01582 490049

marketing.uk@skf.com

www.skf.co.uk

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