



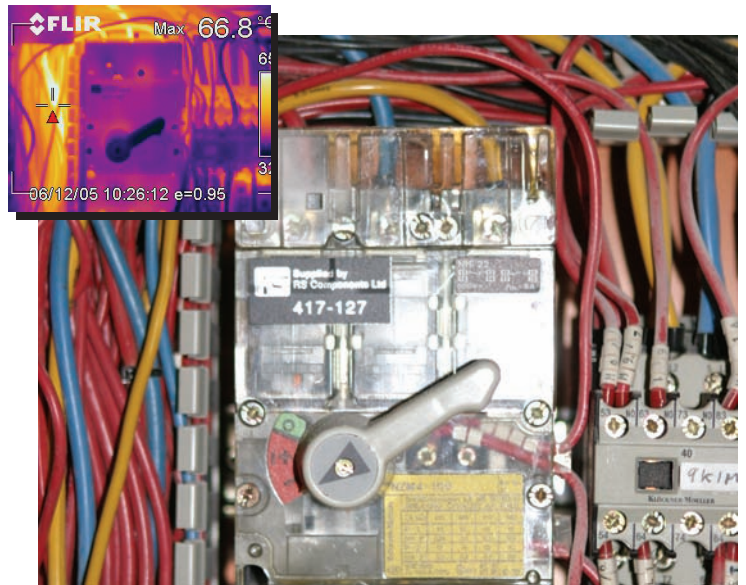
Operational excellence and **continuous improvement** are phrases that have become common place in almost every industry today. The constant pressure for performance gains and cost reductions is forcing organisations to look for more and more ways to deliver greater efficiencies from their existing assets.

The need for an effective approach to condition based monitoring is perhaps obvious. The days of reactive maintenance programmes are gone. If an organisation is to compete effectively, it must be able to predict potential machine failures before they happen and implement planned maintenance programmes designed to minimise unscheduled machine downtime.

Key Features

The MachineCare solution from DMS is a specialist condition monitoring service that is tailored to the specific needs of the individual client. Highly skilled engineers work with the clients' team to identify priorities and areas of criticality. Our experts will then implement a programme of regular site surveys monitoring the key rotating equipment to identify potential problems or areas of concern. Industry recognised techniques are used during the course of a survey including:

- **Vibration Measurement & Analysis.** Frequency of vibrations are measured in detail to determine if the vibrations are indicating equipment deterioration or an impending defect.
- **Ultrasound.** Ultrasound probes are used to 'tune in' to potential problem frequencies and determine severity levels. This technique is ideal for identifying early stage deterioration.



The MachineCare services from DMS have been specifically developed to help organisations proactively manage their key plant assets and to realise the significant benefits that a Total Asset Management solution can deliver.

- **Oil sampling.** Lubricants are sampled and tested for the presence of any contamination such as water or other detrimental particles.
- **Thermography.** Infra red cameras are used to detect abnormal increases in equipment temperature, due to poor connections and damaged components. Historically thermography was predominantly used on electrical equipment but more recently it has been applied to mechanical components providing an extremely useful tool for identifying problematic areas.



The guiding light in total asset management

MachineCare Highlights:

- Expert engineering consultants
- State of the art monitoring equipment
- Tailored service to suit each client
- Detailed analysis and reporting
- Specialist support services and problem solving



Our consultant engineers will typically monitor up to 400 assets in one day and on completion of each site survey, supply a detailed analysis and exemption report identifying any potential areas of concern or any critical problems that may require immediate attention.

A typical exemption report will not only provide details pertinent to the particular fault but will also offer explanations as to probable cause and recommended actions to rectify the situation.

This service from DMS is at the heart of our Total Asset Management program where our consultant engineers are working as an integral part of each clients own team to deliver a service that is providing real value.

By employing the MachineCare service from DMS, our clients are enjoying the peace of mind that their critical plant assets are being looked after by some of the best engineers in the business.

Benefits

Some of the key benefits offered by the MachineCare service are:

- Improved asset reliability through early prediction and avoidance of equipment failures
- Increased equipment and component life through better maintenance programmes
- Reduced unplanned downtime
- Identifies problems quickly and safely without interrupting production processes
- More effective maintenance scheduling and utilisation of limited maintenance resource
- Optimised equipment performance

About DMS

DMS was established in 2004 as a specialist engineering consultancy that offers a unique range of innovative products and services designed specifically to help clients realise the benefits of true "Total Asset Management".

We operate throughout the UK, delivering solutions to clients from a broad range of industry sectors from manufacturing to water treatment, from building supplies to glass production. We work in partnership with our clients to deliver tailored solutions that meet the individual needs of the business, supporting them in achieving the common goals of improved performance and reduced cost.

The concept of Total Asset Management is not new – delivering it is! DMS can help to turn the vision into reality.

For more information contact Allan Findlow, Sales Director.



Other products and services from DMS



An asset management solution to help organisations manage their critical plant drive assets



An oil condition sensor that provides real-time lubrication analysis and monitoring.



A "live", flexible and cost-effective, condition based monitoring system, which has been specially designed for use on critical plant machinery and equipment.

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