



The requirement to implement an effective monitoring and maintenance programme for lubricants used in critical plant machinery has never been greater.

With the escalating price of crude oil and the vast improvements that are being seen in the quality of lubricants available today, it is more important than ever for organisations to ensure that they are maximising the service life of the oil used. Monitoring the condition of the oil is clearly fundamental to understanding the optimal time to change. Change too early and the cost is significant - change too late and the costs can be even greater.

Traditionally this monitoring has been carried out via a sampling and analysis programme, but the ability to optimise the service life of the oil is entirely dependent on how often samples are drawn.

With LubriGuard from DMS, the guesswork is taken out of the process.

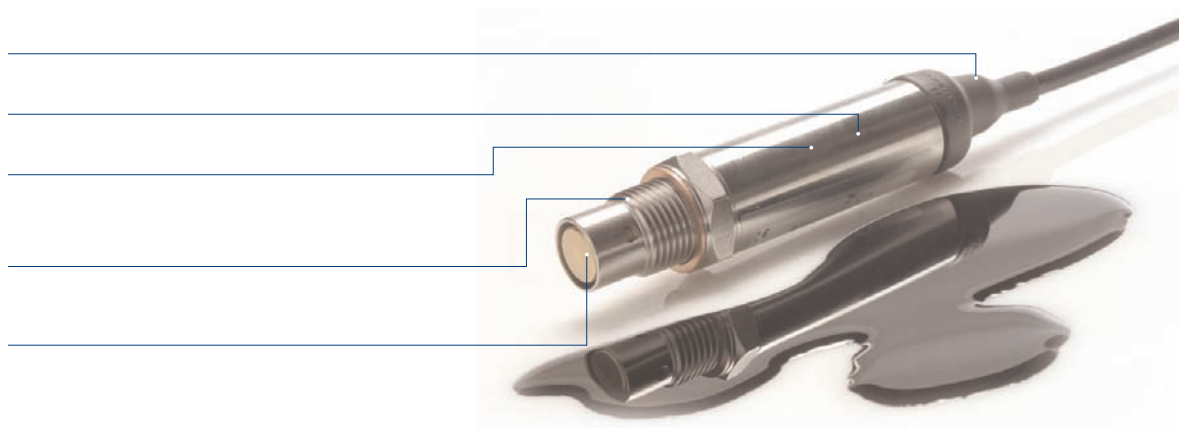
High integrity sealing using standard automotive techniques

Internal processing power offers wide interface options

Stainless steel housing - Rugged and long life performance

Widely used 1/2" BSP thread - Quick and easy installation to a wide range of machinery

Gold oil sensing contact - Long life and sensitivity



### Key Features

The LubriGuard Oil Condition Sensor is permanently mounted within any lubrication system and on any type of machine. It provides real-time monitoring of water ingress and oxidation levels enabling immediate action before any harm is done to the machine or the oil. LubriGuard goes beyond the normal protection systems; it monitors the root cause of lubricant and machine failure detecting changes caused by water and acid levels, using a combination of proven dielectric sensing, combined with smart algorithms to provide a trend. LubriGuard puts you in control. You know exactly when to change the oil based on condition, not on historical schedules.

During commissioning, DMS set up the LubriGuard system with the required warnings and alarms which can inform the client of the condition in question by SMS text message, e-mail, fax or by a flashing light or klaxon fitted locally to the equipment.



The guiding light in total asset management

The LubriGuard sensor can be integrated into the MachineGuard display system. This provides a user-friendly interface to the range of remote data collection and logging instruments, allowing the acquired data to be viewed remotely on a PC in real time, in a visual format which is immediately identifiable with the plant and the parameters being monitored.

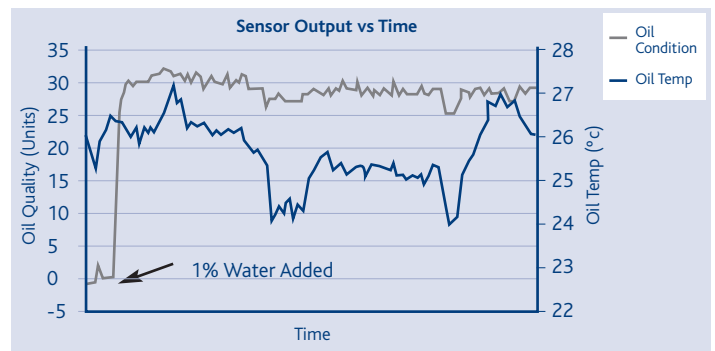
LubriGuard provides instant information, complementing your existing laboratory oil analysis programme, and helping you make informed maintenance planning decisions.



## Specification

- Digital and analogue outputs (4-20mA signal)
- On-board, real-time, date-stamped data logging of over 16,000 records of all parameters at programmable intervals
- 1/2" BSP male thread connection
- 15-30V DC power supply
- RS232, RS485, multidrop, wireless or internet distributed communications with a remote PC
- IP67 enclosure
- 500m, 1km or 4km (nominal range) radio modems for wireless use and 10km-20km line of sight longer range modems. Longer ranges than these specified are available on request
- Wireless networks of up to 255 clusters of 255 instruments may be installed
- "LubriGuard" devices and sensors can be distributed across networks and the internet. IP addressable, traditional LANS and wireless LANS can be directly accessed through the internet
- GSM / GPRS & satellite addressable devices are currently under development

- Simple, traffic-light style icon representing each machine or section of plant being monitored
- Audible warnings and alarms through the PC's speaker
- Multilevel complex alarms to identify specific events
- SMS Text Messaging to instantly alert engineers of critical alarms
- Simple point and click interface giving context-sensitive menus



## 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.



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## Other products and services from DMS



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



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



A managed service to pro-actively monitor rotating plant and equipment using conventional condition based monitoring methods such as ultrasound, vibration, thermography and oil sampling.