



Lubrication Management
Reliability Centred Lubrication

Machine Sentry®

Seamless condition monitoring and asset management

- **Flexible online condition monitoring system** with lubrication management, oil analysis, vibration analysis, process parameters and thermography capabilities
- **Paperless system** tracks all work completion, with all aspects recorded
- **24/7 online lubrication task tracking** accessible anytime, anywhere via a secure portal login
- **Easy control of lubricant application and spend**, with quantities tracked down to point level
- **Flexible Reporting** allows the user to review all aspect of their lubrication programme easily and quickly

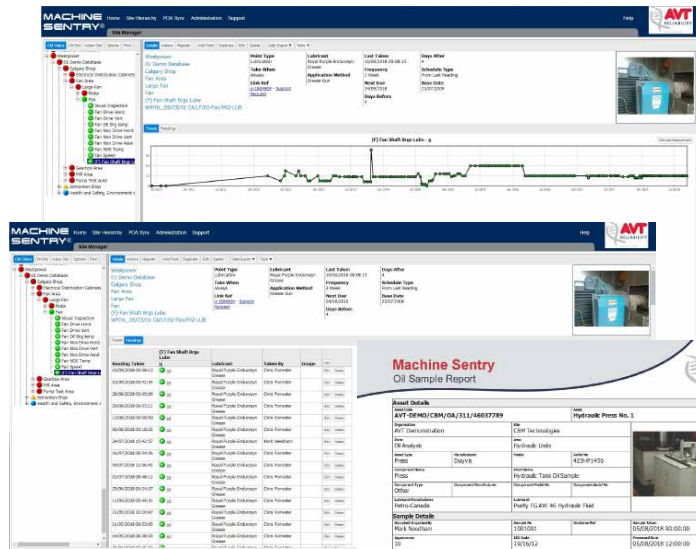
www.machinesentry.com

Machine Sentry®

Machine Sentry®, a unique cost effective Condition Based Maintenance (CBM) solution that integrates all condition monitoring techniques and data, to enable effective maintenance planning and management reporting.

Benefits

- Suits the needs of both expert and novice users
- Up to 5 times faster than other condition monitoring / lubrication systems
- Can be used either as a standalone tool or alongside an existing enterprise system (e.g. SAP, Maximo, PEMAC, etc.)
- Access to world leading condition monitoring and lubrication engineers – providing support, detailed diagnosis and advice
- Easily configurable and scalable for future expansion
- True paperless system, with user login and date and time stamp for completed activities.



Typical applications

- All lubricated equipment
- Highly critical asset management
- Troubleshooting – RCA



“ AVT Reliability® provides Condition Monitoring services for many blue chip clients, on hundreds of sites. ”

Machine Sentry® Lubrication Management

Machine Sentry® integrates your lubrication management with other condition monitoring data into one platform.

Machine Sentry® lubrication management system is suited for planning and recording all tasks on all asset types, such as turbines, compressors, pumps, electric motors, cranes, vehicles etc. It is perfect for your most critical assets.

The Machine Sentry® web platform provides access to detailed lubrication data, with no historical restriction, which can be supported by condition monitoring and lubrication engineers.

Secure access is available anywhere in the world via a standard web browser. In addition the mobile software operates on industry standard Android™ tablets or smartphones including ATEX certified versions.

Machine Sentry® is the perfect platform for the total control of your reliability centred lubrication programme.

The Machine Sentry® lubrication management tool works seamlessly with the other applications within Machine Sentry®, combining all your data in one secure place.

It allows the user to set frequencies, quantities, lubricants and any usage alarms down to the individual point level for lubrication activities, work can be allocated to specific users.

Oil analysis data is imported and trended within Machine Sentry®, with the ability to set individual alarms against wear debris, contaminants and additives.



“Protect your most valuable critical assets.”

Machine Sentry® Features

Modular Cloud Based Machine Sentry® Software – Features include: action tracking, watchkeeping, process measurements, thermal imaging integration, inspections, lubrication management, intuitive dashboard and reporting.

Vibration Analysis – With intelligent tri-axial vibration measurement capability and temperature sensor (patent pending).

ADA™ Automated Diagnosis Assistant– can predict stage 2, 3 and 4 bearing failure and detect a wide range of other common fault conditions..

Suitable for both fixed assets and rotating machinery – The Pipework Vibration Compliance feature allows a plant operator to quickly screen all process pipework and small bore connections in order to identify lines that have the greatest risk of failure.

Oil Analysis – Laboratory oil analysis data is automatically* mapped and integrated into the Machine Sentry® database for easy access by all users enabling better trending and analysis.

Key Performance Indicators (KPIs) – To systematically measure the effectiveness of the condition-based maintenance program from Schedule Compliance to Asset Health & Bad Actor Management.

Lubrication Management - Plan, track and manage lubrication activities and usage.

Specification

Function	Ability
One easy to use database for lubrication, oil analysis, vibration analysis, thermal imaging, visual inspections, watch keeping and process parameters	Y
Schedule lubrication tasks down to lubrication point level	Y
Set lubricant quantity at individual lubrication point level	Y
Set lubricant Manufacturer, type and grade at individual lubrication point level	Y
Customisable alarms to show when task is overdue / coming due	Y
Customisable alarms to show over and under lubrication	Y
Lubricant usage down to point level tracked and trended	Y
Lubrication ultrasonic readings stored, tracked and trended	Y
Lubricant tasks assigned to specific individuals	Y
Reports for lubricant usage, schedule compliance, action notes, asset details etc.	Y
Image of component for ease of identification – tablet and web.	Y
Site / area schematic available to user to assist in locating an asset – tablet and web	Y
Paperless system – Android device / web based	Y
Barcode / RFID Identification (takes you straight to the asset to be lubricated)	Y
Oil analysis data imported direct to the asset – no separate database	Y
Oil analysis alarms customisable within the database, and trended	Y
KPI information for schedule compliance and asset health	Y
Asset and component details such as Gearbox manufacturer, type, speed, bearing details etc. stored at component level.	Y

AVT RELIABILITY®

Distributed by:

The comprehensive AVT Reliability® program covers Asset Integrity, Performance Monitoring, Training, Maintenance Consultancy and Total Pump Management / Products to industry.

AVT Reliability® are certified to ISO 17359 and ISO 9001. Accredited by UKAS as a Machine Directive Notified body, and are ICML and BINDT members.

Head Office:

AVT Reliability Ltd

Unit 2, Easter Court, Europa Boulevard
Warrington, Cheshire, WA5 7ZB, UK

t: +44 (0)161 486 3737

e: info@avtreliability.com

www.avtreliability.com

Proud members of the AES
Engineering Ltd group of companies
“passionate about reliability”

