Portable [condition monitoring]

OilCMS

[ON-SITE PORTABLE SERIES]

OilCMS is the portable, robust, real-time solution featuring Atten[2] optical technology for particle counting and particle morphology analysis in lubrication systems.

The Portable OilCMS utilizes breakthrough digital imaging technology which provides a greater insight into the size and type of particulate in any oil system. Air bubble elimination and shape recognition gives root cause particle analysis.

Giving ISO 4406 counts as well as 4, 6, 14, 21, 38 & >70 micron sizing and bubble elimination. Digital imaging combined with advanced algorithms sorts particles into fatigue wear, cutting wear and sliding wear categories to give root cause analysis.

All Atten[2] technology functionalities available

- Particle counting according to ISO 4406 standard > 4 microns
- Discrimination and counting of air bubbles
- Classifies particles in 6 ranges (>4, >6, >14, >21, >38, >70 µm)
- Shape analysis

[FEATURES]

Digital Imaging Particulate Counter

Classification and counting of particles larger than 4 microns in 6 ranges. 4, 6, 14, 21, 38, > 70 microns. Air bubble and water droplet elimination.

Root cause information

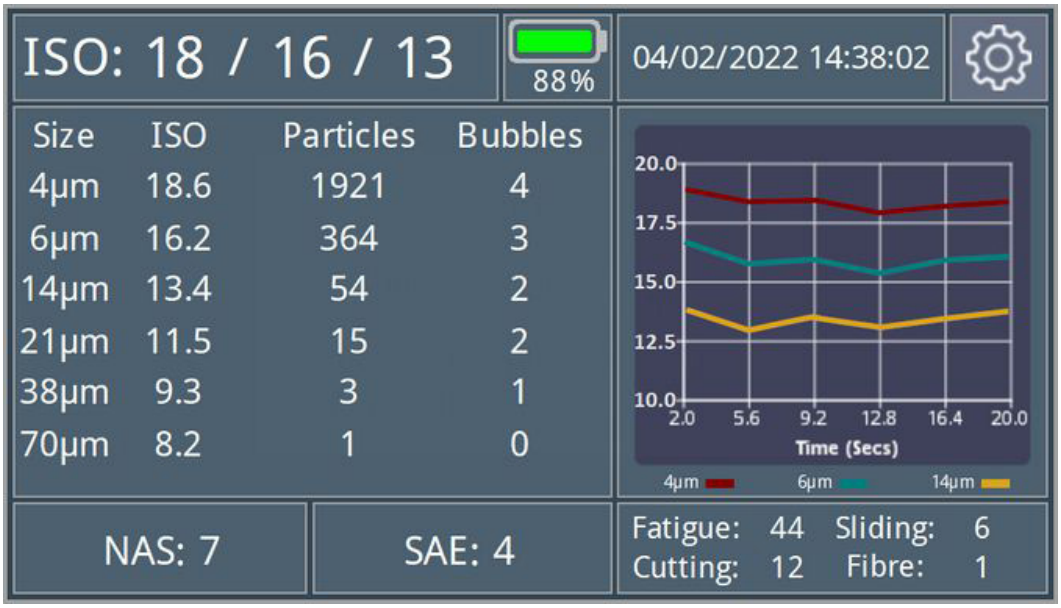
Shape determination to classify fatigue, sliding or cutting wear as well as fibre identification helping to identify the root cause.

[TECHNICAL INFORMATION]

Fluid Compatibility	Synthetic oils, organic oils, mineral oils & diesel fuel (2,400 cSt viscosity limit)
Display Information	**Particulate:** ISO 4406, SAE AS4059 & NAS 1638, bubble elimination and particle wear analysis
Modes of operation	High-pressure live system sampling (up to 350 bar) - via a high-pressure adaptor Bottle sampling and tank sampling (up to 2,5 bar)
Data	All data stored locally and backed up off-site. Export to CSV

[DIMENSIONS]

[TOUCH SCREEN DISPLAY]



1. Clear and easy to read ISO code which changes between green, white and red to indicate the oil cleanliness

2. Oil cleanliness for each size category details the ISO code, number of particles per mililitre and the bubbles detected

3. Additional sensors give an unprecedent insight into the overall condition of the oil

4. Additional settings allow control of the pump speed for priming and flushing, datalogging, ISO cleanliness alarm limits and changing the time zone

5. Oil cleanliness is trended over time to show how its condition changes

6. Particles are analysed and sorted into fatigue wear, cutting wear, sliding wear and fibre identification to give root cause analysis

Internal Stepper Motor Pump

We've developed a fully controllable stepper motor driven pump to deliver exact flow rates for any oil from 1 to 2,400 cSt. The pump also allows connection to a live system up to 350 bar via a high pressure adaptor.

Battery life

Internal rechargeable lithium battery provides a long life for remote use.