

ON-SITE OIL ANALYSIS

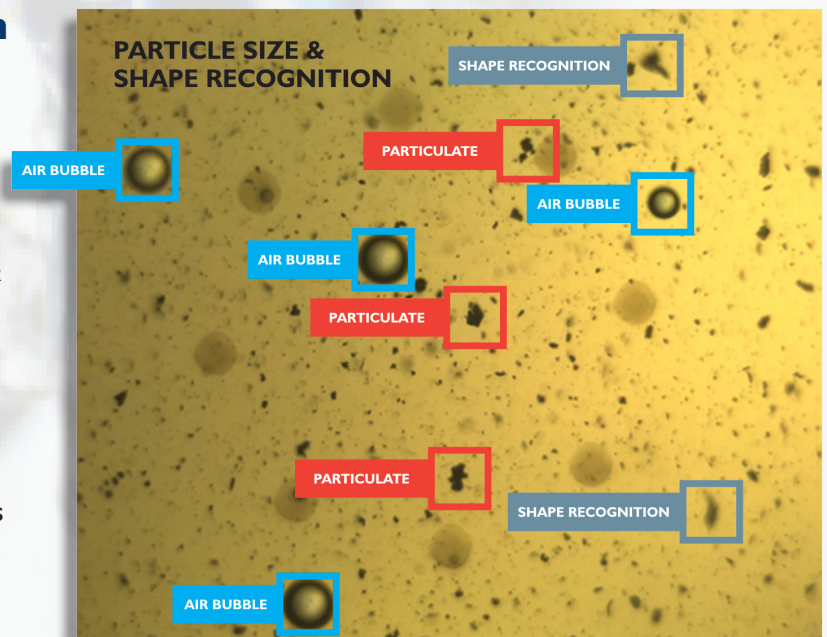
Our all new **Particle Pal Plus** utilises breakthrough digital imaging technology which provides a greater insight into the size and type of particulate in any oil system. Air bubble elimination and shape recognition gives root cause particle analysis. A water content sensor and stepper motor pump for high viscosity oils completes the package.



FS9V4-RH-HV

Harnessing the power of proven digital imaging and water sensing technology

We've embedded the latest in particle counting technology into our new Particle Pal Plus series. 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. This powerful technology, when coupled with an additional sensor for measuring water content gives unprecedented, on-the-spot insight into the condition of your oil.



The image above is 4mm x 3mm and shows particulate that the human eye can't see. Images of the oil are not displayed on the screen.



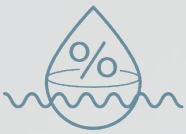
Digital Imaging Particulate Counter

Capable of broad size determination from 4, 6, 14, 21, 38 & 70 micron counts. Air bubble and water droplet elimination. Shape determination to identify fatigue, sliding or cutting wear as well as fibre identification.



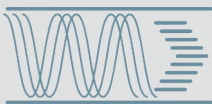
Battery Life

Internal rechargeable lithium batteries providing up to ten hours of use.



Water Sensor

Water in oil is a contaminant that can contribute to microbial growth and encourage further contamination, from solids to rust. The inbuilt water sensor shows the relative humidity of any oil as % saturation for analysing oils.



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 350bar via a high pressure adaptor.



Water content.

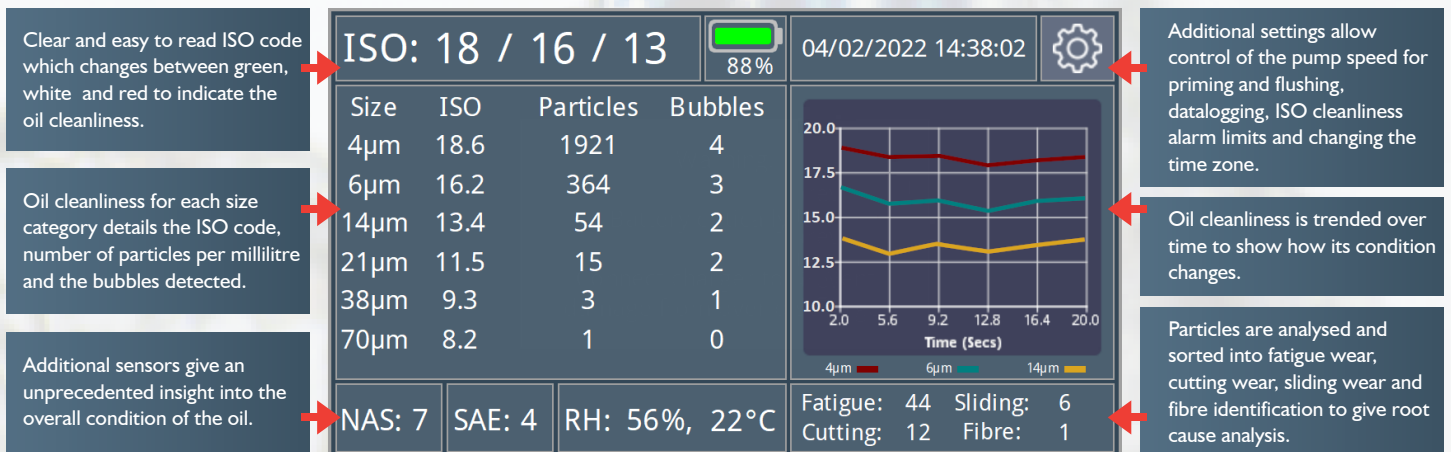
Displayed as % saturation (relative humidity). Helps inform whether an oil change is actually required.



Particulate analysis.

The Atten2 digital imaging particle counter gives advanced size and shape recognition for any sample. Counting particulate in virtually any oil up to 2,400cSt, the Atten2 device also eliminates air bubbles, making it ideal for heavy lube and gear oil applications in cold temperatures. Reporting 4, 6, 14, 21, 38 & 70 micron counts as well as categorising any particle greater than 20 microns into:

- Fatigue Wear • Sliding Wear • Cutting Wear • Fibres



Particle Pal Plus Advanced Oil Analysis - 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. Water sensing: Water is displayed as relative humidity (RH) % saturation. |
| Modes of Operation | High pressure live system sampling (up to 350 bar) - via a high pressure adaptor. Bottle sampling and tank sampling. |
| Data | All data stored locally with an option to export to CSV or PDF. |