

ONLINE OIL ANALYSIS

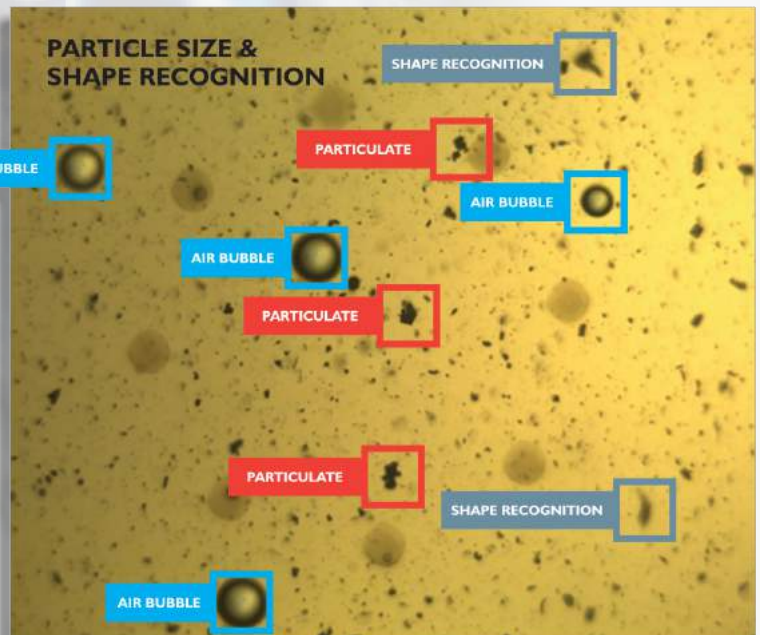
Our all new **SI20 PARTICLE MONITOR** utilises breakthrough digital imaging technology which provides a greater insight into the size and type of particulate in any oil system. Air bubble detection and elimination from ISO counts, along with shape recognition giving root cause particle analysis. Information is displayed on an interactive 4.3" LCD touchscreen displaying all information with a graph showing oil cleanliness over



SI20 PARTICLE MONITOR

Harnessing the power of proven digital imaging technology

We've embedded the latest in particle counting technology into a compact wall mounted enclosure. 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 can be combined with an additional sensor for measuring water content, giving 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 > 100 micron counts. Air bubble and water droplet elimination. Shape determination to identify fatigue, sliding or cutting wear as well as fibre identification.



Water Sensor

Water in oil is a contaminant that can contribute to microbial growth and encourage further contamination, from solids to rust. An optional water sensor can be provided to install in the system and wire into the particle monitor showing the relative humidity of any oil as a % saturation for analysing oils.



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 & > 100 micron counts as well as categorising any particle greater than 20 microns into:

- Fatigue Wear • Sliding Wear • Cutting Wear • Fibres



Water content.

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

SI20 PARTICLE MONITOR Advanced Oil Analysis - TECHNICAL INFORMATION

Fluid Compatibility	Synthetic oils, organic oils, mineral oils & diesel fuel (2,400 cSt viscosity limit) Skydrol option available on request
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 (optional extra)
Accuracy	Particulate: +/- 1 ISO code Water sensing: +/- 1% RH
Power Supply	24 VDC
Ports	1/8" BSP
Max Pressure	160 bar
Flow Rate	0.1 - 1.0 l/min (flow control valve available on request)
Viscosity Limit	2,400 cSt
IP Rating	IP65
Temperature Range	5°C - 50°C
Dimensions	160mm (w) x 166mm (h) x 145mm (d)