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# Seta AvCountHV SA1110-0

Laboratory Particle Counter for High Viscosity Lubricants and Hydraulic Oils

ASTM D6786; ASTM D7647; GJB 420; GOST 17216; ISO 4406; ISO 11171; ISO 60970; NAS 1638; NAVAIR 01-1A-17; SAE AS 4059

- High viscosity, up to 1500 mm<sup>2</sup>/s at 20 °C
- ISO 11171 calibration
- Cumulative counts/ml
- ISO 4406 cleanliness codes
- Colour touch screen
- Dilution ratio calculation
- Real time display of test progress
- User programmable
- LIMS, network and VNC connectivity
- Programmable alarm limits
- User and sample identification
- Embedded test methods
- Integral printer
- 500,000 test memory



### Hydraulic Oil • Lubricants



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### AvCountHV Particle Counter

The AvCountHV is a compact bench-top automatic particle counter, used to measure the size and distribution of particles and water droplets in lubricants and hydraulic oils with viscosities up to 1500 mm<sup>2</sup>/s at 20 °C.

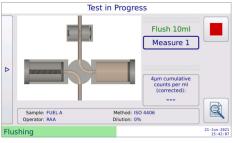
The test process is fully automated. Having prepared your sample in accordance with method instructions, simply insert the metal dip tube into the sample container, select a test method and initiate the test, the test proceeds without any further operator intervention.



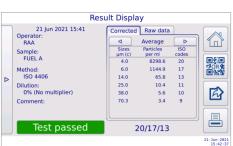
### **Operator Interface**

Start of Test				
Operator:				14
Sample:				
Method:	ISO 4406			
		1 measureme	nt	Flush
Dilution:	0%	No multiplier	Sample: 200 ml Diluent: None	Flush
Comment:				
Press ► to start a test				21-Jun-2021 16:33:01

Enter operator and sample details, select method, press



> Test begins, instrument sequences are detailed



- Final result displays either numerically or graphically
- For more information please visit: www.stanhope-seta.co.uk



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**Cost Saving** 

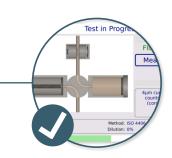
waste

centre



#### Ease Of Use

- Features simple user interface with touchscreen display
- The fully-automated test means extensive operator training is not required before using the instrument
- User-defined test methods are easily programmed



associated with sending the instrument to a service

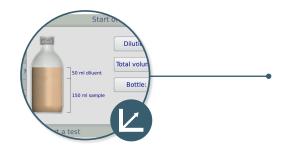
• Low operator time due to simplicity of set up and automation, giving operators the option to work on

• Small test volume, 150 ml, can reduce cost and

 LIMS or network compatible for quick result interpretation, increasing productivity

• In-field calibration eliminates time and costs

something else and reduce labour costs



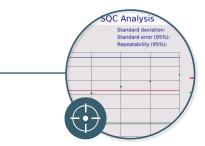
### **Enhanced Functionality**

- Dilution protocol for testing of high viscosity samples
- Real-time display of test progress and ability to view previous results whilst running a sample
- Password-protected levels for security
- 4 embedded test methods
- User and sample identification track and trace

### **Precision and Accuracy**

- Fully automatic test sequence and consistent sample handling ensures test repeatability and reproducibility
- ISO 11171 calibration protocol
- Programmable alarm limits
- SQC analysis allows analysis of results in accordance with ASTM D6299

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Operation			
Principle of operation	Laser obscuration		
	13 embedded test methods, user programmable, including:		
Test methods	ASTM D6786; ASTM D7647; GJB 420; GOST 17216; ISO 4406; ISO 11171; ISO 60970; NAS 1638; NAVAIR 01-1A-17; SAE AS 4059		
Particle size range	4μm(c) to 70μm(c) (ISO 11171), 1μm to 100μm (ISO 4402), 1 to 200μm (ISO 21501-3 available on request)		
Test duration	Less than 3 minutes		
Pressure (max)	Online pressure 10 bar gauge		
Sample temperature range	Ambient 0 to 70 °C		
Operating temperature range	Ambient 5 to 40 °C		
Relative humidity (max)	80% @ 40 °C		
Sampling method	Bottle sample and continuous		
Programmable test method parameters (via PC)	Size		
	Protocol (number of repeat measurements, flush volume before first measurement, flush volume between measurements, flush between measurements)		
	Single or automated repeat tests, interval between repeat tests		
Display and control system	Real time test progress and results, touchscreen		
Measurement			
Measuring channels	16 size channels displayed on instrument		
Counts per measurement (max)	30,000 per ml		
Coincidence error limit	30,000 particles/ml $\geq$ 4µm(c) with $\leq$ 5% co-incidence error (ISO 11171)		
Sample viscosity (max)	1500 mm²/s at 20 °C (no external pump required)		
Sample volume (typ)	150 ml (includes 10 flush cycles and 5 measures)		
Sample delivery	Integral Dual Piston Pump (DPS) upstream of the cell		
Sample flow rate	30 ml/min ±5 ml/min		
Data Management			
Results format	Cumulative, Particles/ml, ISO 4406 cleanliness codes/classes Numerical and graphical display		
Memory	500,000 result memory, print via internal printer, export to LIMS, USB or QR code		
Connectivity	RJ45 Ethernet or USB		
Number of calibration points	16 (MTD)		
Power requirements			
Voltage	100/240 V, 50/60 Hz, Auto-sensing universal power supply		
Physical			
Size (HxWxD) / Weight	370 x 230 x 270 mm / 6 kg		