

# Seta AvCount3 for Skydrol SA1105-0

#### Laboratory Particle Counter for Fuel, Lubes and Hydraulic Oils

ASTM D7619; ASTM D7647; ASTM D975; IP 565; Defence Standard 91-091; Defence Standard 91-86; IP PM FA; GOST 17216; ISO 4406; ISO 60970; NAS 1638; SAE 4059

- 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
- 14 embedded test methods
- Integral printer
- 500,000 test memory
- In-field verification and calibration
- FFKM seals, compatible with synthetic oils



#### Fuels • Hydraulic Oil • Light Lubricants



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#### AvCount3 Particle Counter

The AvCount3 is a compact bench-top automatic particle counter, specifically designed to measure the particulate of Skydrol hydraulic fluid.

Skydrol is an advanced fire resistant aviation hydraulic fluid which inhibits corrosion and prevents erosion damage to servo valves. It has been approved by most airframe manufacturers including Airbus, Boeing and BAE Systems and has been used in their products for over 40 years.

Due to the highly corrosive nature of Skydrol material this special version of the AvCount3 is fitted with Isolast seals and a protective inner case.

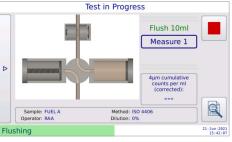
The test process is fully automated. Having prepared your sample in accordance with method instructions, simply insert the metal dip tube into the sample container, select a test method and initiate the test, the test proceeds without any further operator intervention.



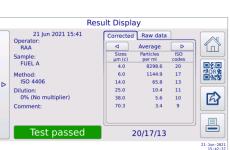
#### **Operator Interface**

		Start of Test			
Operator:				14	
Sample:					
Method:	ISO 4406				
		1 measureme	ent	Flush	
Dilution:	0%	No multiplier	Sample: 200 ml Diluent: None	Hush	
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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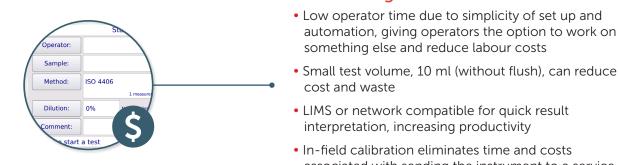
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Cost Saving

cost and 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

# Test in Prog

associated with sending the instrument to a service

automation, giving operators the option to work on

something else and reduce labour costs

interpretation, increasing productivity



#### **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
- 14 embedded methods for fuel and oil testing
- 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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## ASTM D7619; ATM D7647; ASTM D975; IP 565; Defence Standard 91-091; Defence Standard 91-86; IP PM FA; GOST 17216; ISO 4406; ISO 60970; NAS 1638; SAE 4059

Operation			
Principle of operation	Laser obscuration		
Test methods	14 embedded test methods, user programmable including ASTM D7619; IP 565; ISO 4406; NAS 1638; SAE 4059; GOST 17216		
Particle size range	ISO 11171: $4\mu$ m(c) to 70 $\mu$ m(c) (calibration for larger sizes 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		
	Size		
Programmable test method parameters (via PC)	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			
Massuring channels	16 size channels displayed on instrument,		
Measuring channels	$4\mu$ m(c) to 70 $\mu$ m(c) and 2 $\mu$ m to 100 $\mu$ m (ISO 4402 sizes)		
Counts per measurement (max)	60,000 per ml		
Coincidence error limit	60,000 particles/ml $\geq$ 4µm(c) with $\leq$ 5% co-incidence error (ISO 11171)		
Sample viscosity (max)	68 mm²/s (using internal pump), 200 mm²/s (pressure fed @ 3 bar gauge) (SA1950-0 Sample Delivery System is available as an accessory)		
Sample volume (typ)	80 ml for ASTM D7619 & IP 565, from 20 ml for other methods (includes flush cycles)		
Sample delivery	Integral Dual Piston Pump (DPS) downstream 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		