

CANTY

PROCESS TECHNOLOGY

FUEL / LUBE OIL PARTICLE & WATER ANALYZER



THE CANTY ADVANTAGE

The presence of solid particles and water in lubricating and hydraulic oils can be problematic as they increase wear of moving parts, clog system filters and promote corrosion throughout the system. Detecting solids and water in these oils is crucial in managing the operation of equipment and enhancing its effective life cycle. Knowledge of particle shape, in addition to count per mL, enables the user in many cases to assess the type of particulate present and its cause which can assist in pinpointing future points of system failure and preventing them.

Combining the latest in CCD/CMOS Ethernet camera technology, with CANTY fused glass technology, high intensity lighting, and Cauty CoreUnit™ processor and software, the system provides real time particle analysis of solids, water and air bubbles in lubrication oils. The method involves flowing the lubricating or hydraulic oil between a microscopic camera and high intensity light source. The captured images are then analyzed by the Cauty CoreUnit™, where the suspended particulate is analyzed under a number of different parameters to provide size, shape and concentration data. As per ASTM D7596, particles are classified under sliding / cutting / fatigue wear, nonmetallic particles, fiber particles, water droplets & air bubbles to provide a comprehensive understanding of the condition of the fluid, and indicate where and how possible failures are likely to occur.

FEATURES

- **Measuring Principle as per ASTM D7596 & D8049**
- Data reporting to ISO4406
- Detects and discerns solids, water and air in oils - back scatter and obscuration devices cannot determine shape and therefore count water and air as solid particles.
- Visual Verification
- Ethernet Connectivity
- Intuitive Software Interface
- Measurement to 0.7 um
- Data Outputs to Excel Database
- Fused Glass Process Barrier
- High Intensity Lighting for Maximum Magnification

APPLICATIONS

- Lubrication Oil Analysis
- Jet Fuel Analysis
- Water Contamination
- Solids Contamination
- Bunker Fuel Analysis

BENEFITS

- Variable Line Sizes available From 1/2" - 10" with Inline Inflow (TA11500-1023)
- Independent Reading Of Water & Solids
- Record Video For Later Analysis
- Optional Save Video & Images If Needed
- **Gallons per Minute Flow Rates**

SPECIFICATIONS

- Luer Lock Connection
- Particle Size Range = .7 - 480 micron
- 120 V AC / 60 Hz or 240 V AC / 50 Hz
- Syringe Pumping System
- Gravity Feed Flow System
- Variable Gap
- Ethernet OPC or 4-20 mA Output

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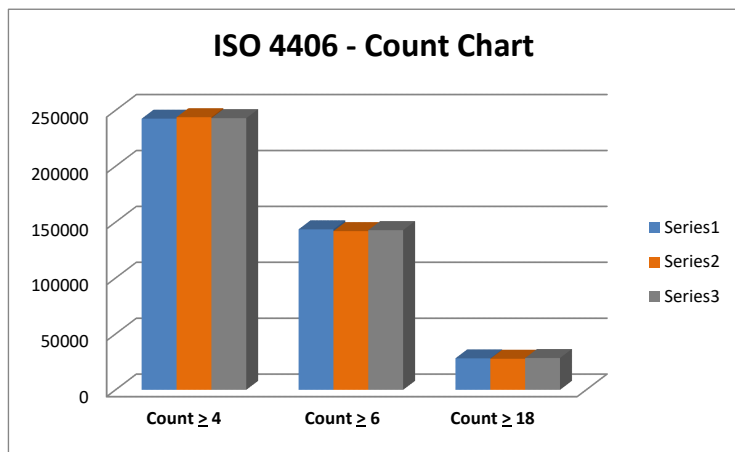
ORDERING INFORMATION

PART NUMBER (120 V AC)=

LUB - A G 1 K 6 1 B 1 2 A Z

PART NUMBER (240 V AC)=

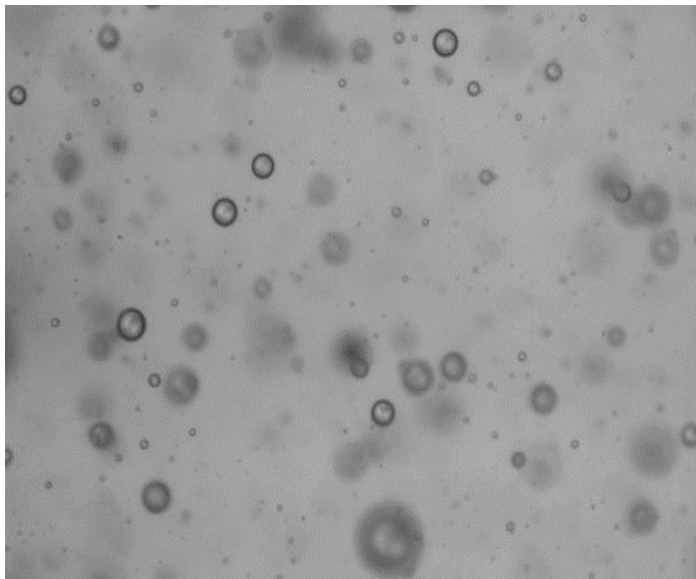
LUB - A G 1 K 6 2 B 1 2 A Z



ISO > 4	ISO > 6	ISO > 14
25	24	22
25	24	22
25	24	22

Count & size data output

Data reporting to ISO 4406



Visual images to verify contamination

Standard peristaltic pump layout