New

COA model 127 is a novel oil and grease analyzer which detects wear metal and contaminants in used oil and grease.

The novel feature: COA 127 links the levels of elements to large particles, the most critical information on actual wear / contamination of lubricated machinery. So it functions partially as ferrography, X-ray, and RFS, in addition to elemental reports. This raises the efficiency and adequacy of predicting severe wear / contamination of monitored equipment.

COA 127 is portable, low-cost, and simple. It is an excellent instrument for condition monitoring and preventive maintenance, including on-site lubricant analysis.



www.cycp-oilanalyzers.com

0il & Grease Analyzers COA 127

FEATURES

<u>Sweeping flat electrode atomic emission spectrometry</u> (SFE/AES)

Reports closely linked to machine health

Fast & simple: results in less 3 minutes

No limitation to wear particle sizes

No viscosity limit for samples

ASTM D8315

Multi-language software user interfaces

Toolbox size/ hand-portable

Low cost: maintenance-free

Low cost: no factory installation

TESTABLE LUBRICANTS

Mineral and synthetic:

Engine oil

Gear-box oil

Grease

Hydraulic fluid Compressor oil Turbine oil Transformer oil Heavy fuel

TECHICAL DATA

Wear metals/contaminants: 0-2400 ppm (w/w). Approximately. Al, Cu, Fe, Cr, Na, Pb, Si, Sn, Ag, K, Ti, Cd, Mn, Ni

Oil & grease additive elements: 0-8000 ppm (w/w). Approximately. Ca, P, Zn, Mg, B, Li, Mo, Ba, V

Time of analysis: 2.8 minutes (maximum)

Sample volume required: <1.5ml

Sample viscosity: unlimited

Power supply: 97-230 VAC/40-70Hz, 14 Amps

Operational temperature: 3-27 °C

Operational humidity: 0-80% non-condensing

Operational altitude: up to 5000 meters above sea

Computer OS: MS Windows XP or newer

Dimensions and Weight: 13" x 13" x 11", 19lbs or 34cm x 33cm x 29cm, 8.6kg

Consumables

Upper: rod graphite electrode for RDE, max. length: 150 mm
Lower: flat graphite electrode

Calibration standards (ppm by weight): 1) 21 or 21+K (50 or 100) 2) MA4 (Ca 5000, P, Mg, Zn: 1600) 3) Blank oil 4) (Optional) Li: 1000 ppm

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REPORTS

• Regular elemental report: sum of fine and coarse particles, with customized alarm limits and diagnostic statements

• Concentration of non-suspended particles (virtual RFS): large wear/contaminant particles only

• Intensity surges: occasional large wear metal particles

ON-SITE APPLICATIONS

COA 127 is so simple and rugged that it can be operated by maintenance / mechanical staff, no chemists required. Test results are reliable, no worries about electrode contamination or non-sufficient cleaning time.

• Engine bench test facilities

Gas / diesel engine development

 Preventive maintenance of earthmoving equipment and fleet

MiningConstructionAutomotiveTruck stopsGovernment (military/municipal)

• Industry Steel mills, Petro / chemical plants, wind farms

Transportation
 Railway

Vessels



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