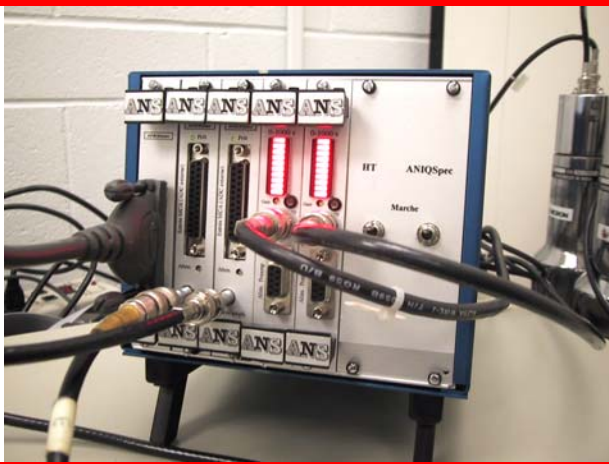
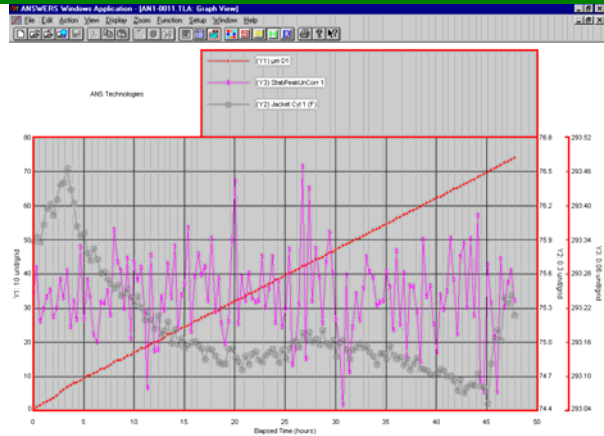


Products & Services from ANS Technologies Inc.

Surface Layer Activation (SLA/TLA)

- Used to measure wear & corrosion in real time.
- Applicable to most machines for the development of components or lubricants.
- Extremely precise measurement of wear.
- Selective labeling permits monitoring of a specific surface of the machine part in question.
- Multiple machine components may be studied simultaneously (eg. rings & liners).
- Full range of products and services available.

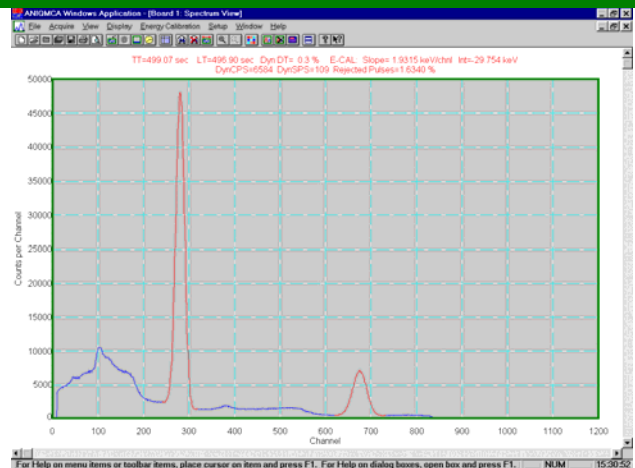


ANIQSpec Integrated Spectroscopy System

- Complete spectroscopy system suitable for use with multiple radiation and other detectors.
- Stand-alone VME unit that interfaces with the parallel port of a PC in any Windows OS.
- Compact size (6.5" x 8" x 5.5" for five slots).
- Multiple, independent detectors.
- Auxillary IO boards with analog and digital signal detection and control capabilities.
- Software included, full DLL libraries available for your own software.

Spectroscopy Software

- **ANSWERS:** a multispectrumming package that collects sequential spectra from up to four detectors, analyses the data according to pre-defined parameter sets, and displays the results.
- **ANIQMCA:** a spectrum collection and display package. Included with the purchase of the ANIQSpec system.
- **IOViewer:** a general signal control, display and recording software package for use with the ANIQIO board. Included with the purchase of the ANIQIO.



D-Lube: On-Line Oil Dilution Measurement

- New methodology based on a novel radiotracer.
- On-line results, during engine operation.
- Precision on dilution rate of 0.05% per hour.
- Excellent discrimination between fuel and lubricant.
- Easy to use apparatus that provides the results in terms of percentage dilution.

Air-X: On-Line Oil Aeration Measurement

- On-line measurement of oil aeration in an operating mechanical system, such as an engine or gear box.
- Principle based on a precise density measurement using X-ray transmission.
- On-line temperature compensation.
- Air content reported at STP.
- On-line display of air content (precision of 0.5% air for a 10 second counting interval).
- Easy calibration procedure.
- Aeration generator available (Air-Mix).



C-Lube: On-Line Oil Consumption Measurement

- On-line measurement of oil consumption in an operating engine.
- Novel tracer that can be adjusted to be representative of the distillation interval.
- Short half-life means no waste material.
- High sensitivity allows monitoring of transient operating phases.



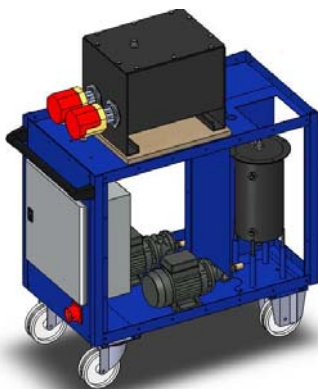
Post-Treatment Devices (DPFs & Catalysts)

- Measurement of catalyst poisoning or DPF clogging in real-time
- No dismantling, measurement through canning
- Each tracer representative of particular element
- High sensitivity, <0.1 mg trapped material
- No change in oil properties
- 3D mapping of ash deposition (off-line)



TC-Lube: External Lubrication System for Turbochargers

- **To lubricate a TC independently from the engine.** The TC can be lubricated with different formulation, at a different press/temp.
- **To study oil consumption issuing from the TC only.** Couple to C-Lube for OC issuing from the compressor and/or turbine.
- **To study TC bearing wear.** Couple to the SLA equipment for on-line monitoring of bearing wear. Dust or diluted oil can also be added into the TC lubrication circuit to study their impact on bearing wear, without damaging the engine.
- **To investigate lubrication limits.** Combination of TC-Lube and on-line wear measurements make it possible to determine the minimal TC oil pressure needed at various operating conditions.



Air-X, D-Lube, C-Lube, TC-Lube are methodologies developed and patented by DSI sprl

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