erasoft OCM

is the core of eralab OCM, the suite of laboratory solutions for easy, rugged and accurate oil condition monitoring.

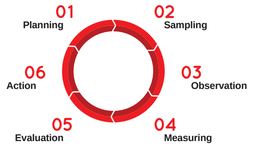
The software supports the operator in essential parts of the management, operation and maintenance of technical facilities. In the area of preventive maintenance, particular significance is attached to oil condition monitoring.

ASSET MANAGEMENT

Display and easy control of the entire asset structure with the management of relevant information and documents

OIL CONDITION MONITORING

Planning and implementation of the entire oil condition monitoring process



REPORTING

Flexible and real-time reporting, including oil reference values, graphs, historical data and evaluation

DATA EVALUATION

Each sample and its results can be evaluated and analyzed to obtain targeted diagnostics with action recommendations

We value the synergies we share with our customers, sales partners, colleagues and suppliers.

We live relationships actively and make our decisions based on team spirit, intuition and mutual trust.

THE NEXT ERA

Xtra **E**ASY.
Xtra **R**UGGED.
Xtra **A**CCURATE.

The expectations and needs of our customers are always in the center of our thinking and acting with the clear goal to exceed them.

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THE NEXT ERA

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eralab OCM

THE NEXT ERA OF OIL CONDITION MONITORING

OIL CONDITION MONITORING

plays a crucial role in predictive and proactive maintenance strategies by providing valuable insights into equipment health and lubricant condition.

An easy way to avoid equipment failure is by establishing an in-house oil condition monitoring platform. By analyzing various oil properties, maintenance professionals can detect early signs of equipment and lubricant degradation.

Contamination

- Elements: silicon, sodium, potassium
- Particle counting
- Soot, water, ethylene glycol, diesel, gasoline, FAME, ethanol, polyolester, phosphate ester

Wear

- Wear metals: iron, chromium, lead, copper, tin, aluminum, nickel
- Ferrous debris

Composition

- Additive elements: boron, zinc phosphorus, calcium, barium, magnesium, molybdenum
- Kinematic viscosity 40 °C/100 °C, viscosity index
- Oxidation, nitration, sulfation, TBN, TAN

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Oil condition monitoring

eraspec oil

THE FTIR SPECTROMETER

With the portable FTIR spectrometer era**spec oil**, detailed lubricant and diesel fuel analyses are carried out fully automatically in seconds. This allows for the fastest determination of important parameters for the aging and chemical condition of oil, like oxidation, nitration, TAN and TBN.

- Monitoring degradation, additive depletion, and contaminations
- Direct trending and spectral subtraction analysis method
- Predefined ASTM, DIN and JOAP methods
- Simple determination of TAN and TBN based on proven chemometric models

eraoil

THE RDE-OES SPECTROMETER

The RDE-OES spectrometer era**oil** measures contaminations and additives in lubricating oils inside engines, transmissions, hydraulic systems, and gear boxes. The easy to use in-house wear metals analysis allows maintenance professionals to react quickly and extend equipment service life.

- Analyzing wear metals, contaminants, and additives in lubricating oils
- Measurement of up to 32 elements in 30 seconds with sub-ppm LOD
- Fully compliant with ASTM D6595 (oil) & ASTM D6728 (fuel)
- Stand-alone design with built-in PC, touchscreen, sharpener & ventilation

eravisc X

THE KINEMATIC VISCOMETER

Monitoring the viscosity index is crucial for assessing the health and performance of the lubricant and determining the need for maintenance interventions. The compact and most robust kinematic viscometer era**visc X** with its revolutionary capillary viscosity cell is a real game changer for high-precision kinematic viscosity testing at any temperature between 15 °C and 100 °C.

- Measurement of kinematic viscosity at 40 °C or at 100 °C in 1 minute
- 2-in-1 viscosity (ASTM D445 and ASTM D7042) and density (ASTM D4052 and ISO 12185)
- Revolutionary capillary measuring cell
- FillingProof® technology to ensure bubble-free filling of density cell

eraflash X

THE PETROLEUM FLASH POINT TESTER

The flash point of liquids is not only a critical factor for safety in handling, storage and transportation, but also provides a good insight into whether lubricants are contaminated with fuels. era**flash X** is tailored for the petroleum industry and the full compliance with the latest flash point standard ASTM D7094 brings 100% safety, unrivaled speed and best-in-class precision.

- Fully compliant to the inherently safe Continuously Closed Cup Flash Point (CCCFP) method ASTM D7094
- Flash point testing over the wide temperature range of 18 °C to 370 °C for all kinds of liquids
- Only 2 mL of sample needed
- Fast turnaround times with unmatched heating and cooling power with the innovative Peltier Boost Technology®

eratest ferro

THE FERROUS DEBRIS ANALYZER

The ferrous debris analyzer era**test ferro** is a mobile and battery-operated measuring instrument for determining the total content of ferromagnetic wear particles in oils and greases. Ferrous debris quantification is a more generalized approach to assessing the concentration of ferrous wear particles in lubricating oils.

- Determining the total content of ferromagnetic wear particles in oils or greases in ppm
- Measurement according to ASTM D8120
- Only 2 mL of sample needed
- 5" color touchscreen with brilliant resolution
- Lithium battery for minimum 5 hours of independent operation

eracount xs

THE ISO 4406 PARTICLE COUNTER

The world's smallest ISO 4406 particle counter era**count xs** is the analyzer of choice for fastest particle measurements with laboratory precision directly in the field. The measured parameters provide critical insights into lubricant condition, equipment health, and potential sources of contamination.

- ISO 4406 particle size channels ≥ 4 µm(c), ≥ 6 µm(c) and ≥ 14 pm(c)
- Measurement within 60 seconds with only 10 mL of sample
- Measurement of up to 8 size channels
- Easy connection to all other OCM analyzers
- High-performance particle counter based on the light extinction method