



Graphic chart display of oil spectra on large color touch screen for fast & easy on-site oil analysis



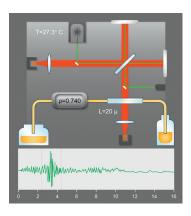
Fingerprint Your Oil in Seconds

Degradation Monitoring: oxidation, nitration, sulfation, ester breakdown, depletion of phosphate antiwear additives and antioxidants

Contamination Analysis: soot, water, glycol, gasoline, diesel fuel **Property Calculation:** TAN, TBN, viscosity class, change in viscosity all this in seconds with a portable analyzer in full compliance with the latest international standards

ERASPEC OIL PORTABLE FTIR OIL ANALYSIS IN SECONDS







The comparison study of the

portable ERASPEC OIL vs. latest

laboratory FTIR analyzers from

Bruker Optics and Perkin Elmer

showed an excellent correla-

tion for all parameters.

High-Speed Results

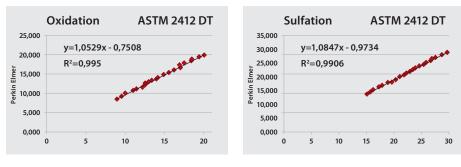
Lubrication is vital for machinery operation. Early detection of lube oil degradation and engine wear is essential for timely replacement. It helps avoid unnecessary maintenance while reducing the risk of breakdowns. ERASPEC OIL uses the economic infrared (IR) analysis test method to deliver specific information about the chemical condition of the lubricating oil. IR analysis also allows inferences about the state of the machine component from which the sample was taken. **IR measurement is fast, provides reliable results and a large amount of information can be gained from an IR spectrum.** Therefore, oil analysis laboratories use it as a routine method.

Stand-Alone Portability

With its patented rugged FTIR spectrometer the **ERASPEC OIL is the first truly portable stand-alone analyzer that offers all the advantages of latest FTIR technology** for high speed lubricant oil condition monitoring in full compliance with ASTM, DIN and JOAP methods.

Within seconds the fully automated ERASPEC OIL provides a detailed fingerprint of the used oil to check for degradation and contamination. First, an integrated pump introduces the sample automatically from the sample container. Then, the ERASPEC OIL measures and calculates the results from the IR spectrum using standard evaluation methods. Its **built-in industry PC and the large full-color touch screen** allow the direct display of the oil spectra as graphic chart. Therefore, the spectra can be analyzed immediately after measurement. Several thousand spectra can be saved in the internal instrument memory, which makes it easy to compare new measurements with previous results.

Lab FTIR vs. ERASPEC OIL



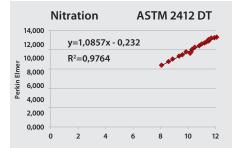
Comparison Perkin Elmer lab FTIR – ERASPEC OIL for Oxidation, Sulfation and Nitration

PORTABLE FTIR OIL ANALYSIS IN SECONDS

Field Design for Lab Performance

Compact and rugged (8 kg / 17.6 lb in a full aluminum housing), the **ERASPEC OIL brings lab quality results to the field.**

Immediate feedback on in-service oil quality even at remote sites, where avoiding equipment breakdown is most critical.



Reliable Precision

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Spectrum Legend
Cursor

(I)

ERASPEC OIL

+ in out

eralytics

100

x [1/cm] y [a.u.] 1824.7 0.034

#1 -

In order to show the great performance of the ERASPEC OIL, an extensive comparison study with two dedicated laboratory FTIR oil analyzers, one system from Bruker Optics, the other system from Perkin Elmer, has been performed. Oil samples were taken from engines between several oil change intervals, one interval typically being 3000 hours of operation. The evaluation of the spectra for both the laboratory FTIRs and the ERASPEC OIL was done using latest ASTM standards incl. ASTM E2412.

ERASPEC OIL



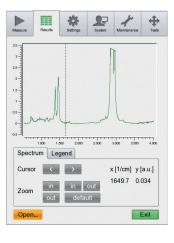
Available Test Methods

ERASPEC OIL offers highly reliable lubricant oil condition monitoring in full compliance with the following ASTM, DIN and JOAP methods:

Parameter	Standards	Range
Soot	ASTM E2412 JOAP, DIN51452	0 – 6 m% 0 to > 300 Abs/cm
Oxidation	ASTM E2412 ASTM D7414 JOAP, DIN51453	0 to > 30 Abs/cm
Nitration	ASTM E2412 ASTM D7624 JOAP, DIN51453	0 to > 30 Abs/cm
Sulfation	ASTM E2412 ASTM D7415 JOAP	0 to > 30 Abs/cm
Phosphate Antiwear Additives	ASTM E2412 ASTM D7412 JOAP	0 to > 30 Abs/cm
Antioxidant depletion		to be defined
Water	ASTM E2412 JOAP	0 – 5 m% 0 to > 30 Abs/cm
Glycol (Antifreeze)	ASTM E2412 JOAP	0 – 5 m% 0 to > 30 Abs/cm
Diesel Fuel	ASTM E2412 JOAP	0 to > 30 Abs/cm
Gasoline	ASTM E2412 JOAP	0 to > 30 Abs/cm
TAN*) (Total Acid Number)	correlation to ASTM D664	0 – 10 mg/g KOH
TBN*) (Total Base Number)	correlation to ASTM D2896	0 – 10 mg KOH/g
Viscosity*) of Engine Oils	Determination of viscosity class Change in viscosity for used engine oils	

*) These properties are calculated based on a database using Multi-Linear Regression (MLR) and Cluster Analysis. Range and repeatability depend on the database used!

Result	Value	Unit	-
07412A Phos. Antiwear	12.27	A/cm	
07414A Oxidation	5.69	A/cm	
07415A Sulf. By-Prod.	13.07	A/cm	
07624A Nitration	0.37	A/cm	
E2412DT Water	17.87	A/cm	
E2412DT Soot	0.00	A/cm	
E2412DT Oxidation	5.69	A/cm	
E2412DT Nitration	2.36	A/cm	
E2412DT AntiwearC	12.27	A/cm	
E2412DT Gasoline	0.02	A/cm	
	0.00	•	



PORTABLE FTIR OIL ANALYSIS IN SECONDS

Technical Specifications

Available test methods ASTM E2412, ASTM D7412, D7414, D7418, D7418, D7624, JOAP, DIN 51452, DIN 51453 Excellent correlation to ASTM D445, D664, D2270 and D2896 Spectrometer type MID-FTIR interferometer (patented laser and temperature controlled design) 15384 data points; scanning range: 450 to 7000 cm ⁻¹ Calibration Factory calibrated with a matrix of international oils Warm-up time 30 seconds Measuring time 60 – 120 seconds Sample introduction Directly from the sample container by an integrated pump Cleaning Automatic rinsing with next sample or solvent Filter Integrated 80 µ metal filter Sample volume 10 ml Display 7" four-color touch screen Communication languages English, German, French, Spanish, Portuguese, Russian, Chinese, etc. Interfaces Built-in PC with Ethernet, USB and R5232 interfaces Direct LIMS connectivity and output to printer or PC Remote control Remote control Remote service capability via Ethernet interface & 3,000 detailed test reports and spectra stored in the internal memory Operators Over 100 operator names storable Allarm tracking Alarm tracking All messages are stored in the database with the result Power		
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Due to continuing product development, specifications are subject to change. All eralytics products are manufactured under ISO 9001 regulations and are CE compliant.

ERASPEC OIL





PERFORMANCE YOU CAN RELY ON

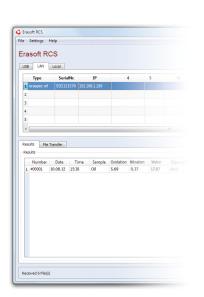
Fast & Easy Operation

All eralytics analyzers use an intuitive menu structure that is easy to navigate. Samples need no prior preparation and measurements are done fully automated.

The results are displayed immediately after the test on the **large and userfriendly color touch screen.** An internal memory holds the measurement results. For convenience, data can be directly **saved to USB flash drives** for further processing or a thorough analysis. The data format is compatible with most PC spreadsheets, such as Microsoft© Excel. Customized print-out designs are available for easy direct printing.

Oil testing in three easy steps with the ERASPEC OIL

- Select/enter the Sample ID and the Operator
- Put the inlet tube into the sample
- Press RUN to start the fully automated measurement



ERASOFT RCS Remote Control PC Software

The RCS software by eralytics is the ideal tool for **operating one or more eralytics analyzers via a PC.** As an alternative to LIMS, it allows for convenient data transfer and fast analysis of results. It ideally supports the cuttingedge technology and functionalities built into the eralytics instruments.

- Multi-instrument networking
- Remote control
- Fast & easy data transfer (results, settings, spectra, libraries, etc.)
- Software upgrade
- Backup/restore for configurations and unit parameters
- Convenient analysis of quality-check tracking data

Compact Stand-Alone Analyzer

All eralytics instruments are compact stand-alone analyzers with a built-in industrial PC. They represent the latest in technology, designed for long-term, maintenance-free operation. Of course, all eralytics analyzers use cutting-edge industry technology and provide universal data transfer options. **Ethernet and USB interfaces allow advanced data management** and connectivity to PCs, modern printers, keyboards, PC-mice, barcode readers, or other external equipment.

Direct LIMS Communication

A direct out-of-the-box connection to LIMS (Laboratory Information Management System) is established with a standard Ethernet cable. **No extra software or PC are necessary.**

True Portability

The small footprint of the eralytics instruments makes them the first choice for use in the lab and on-site. Lightweight and built with an integrated carrying handle they are **ideally suited for mobile applications**.

Large Results Memory

Data are stored safely in the large results memory, which holds many thousand records. Six user levels and a state-of-the-art password technology protect your test result data from accidental deletion.

Service and Remote Control over the Internet

At the push of a button, firmware and software updates can be downloaded from the internet. The internet connection also allows to remotely control eralytics analyzers or to perform standard service activities.





ERASPEC OIL



Upgrade your lab to the 21st century. Leverage the accuracy, speed and comfortable ease of use that are characteristic of eralytics instruments.

Era**vap**

eralytics

Vapor pressure testing at its best - The vapor pressure analyzer for virtually all types of fuel, from gasoline to LPG, that also handles crude oil, and takes all tests in full compliance with the latest ASTM and EN ISO standards. With its unmatched precision and measuring stability (r = 0.3 kPa, R = 0.7 kPa) it is the preferred analyzer in laboratories across the world.

Spectral fuel analysis in seconds - The portable mid-FTIR spectrometer that is fully automated and multi-fuel capable. With its patented design, it is perfect for fast gasoline, diesel & jet fuel analysis, delivering precise results for over 40 fuel parameters, like aromatics incl. benzene (ASTM D6277), oxygenates (ASTM D5845), FAME (EN14078), etc. and many fuel





ERA**FLASH**

The safe side of flashpoint testing - The first and only flashpoint tester on the market to cover the wide temperature range of -25 to 420 °C in a single analyzer. Its small sample size and the continuously closed measuring chamber (ASTM D6450 & D7094) guarantee maximum safety and speed at minimum costs.

ERASPEC

eralytics



ERA**CHECK**

CFC-free oil-in-water testing - The portable analyzer with the patented QCL-IR technology for an extraction with the inexpensive and CFC-free solvent Cyclohexane. With its high speed and precision, it is the instrument of choice to detect even sub-ppm concentrations of total petroleum hydrocarbons (TPH) or total oil & grease (TOG) in water in full compliance with ASTM D7678.

eralytics instruments are available worldwide. An international network of over 50 authorized and well trained dealers is ready to answer your inquiries and to offer local support and service.

properties like Octane, Cetane, Density, Distillation, etc.

eralytics[™] GmbH

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