

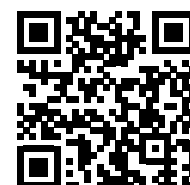
FTIR In-Service Oil Analysis

Lyza 7000 Used Oil Package



Lyza 7000 is a benchtop FTIR spectrometer for oil condition monitoring, compliant with the most important ASTM and DIN standards. Perform analysis at the push of a button with pre-installed methods, or configure your own individual methods based on your requirements.

FIND OUT MORE



[www.anton-paar.com/
apb-lyza-7000](http://www.anton-paar.com/apb-lyza-7000)

Benefits

The Lyza 7000 Used Oil Package includes Anton Paar's reliable and intuitive FTIR spectrometer, the correct transmission cell for your oil condition monitoring needs, and pre-installed methods. It merges measurement, processing, and spectral analysis into one convenient guided workflow.

Easily create your own specialized library and develop your personal methods to optimize efficiency. Set them up as fast pass/fail checks so even untrained users can analyze samples.

Measure and analyze spectra directly in the instrument's embedded software – no need for an external PC. Save lab space with the compact spectrometer's small footprint.

Compliance

ASTM E2412, D7214, D7412, D7414, D7415, D7418, D7624, D7844, DIN 51452 and 51453

Highlights

- Ideal solution for oil condition monitoring: Convenient analysis with predefined lubricant methods
- All you need to know at a glance: System health monitoring and performance tests according to ASTM E1421 including a humidity sensor with active warning system
- High resolution, 10.1", adjustable touchscreen
- Save bench space in your lab: Compact design, no external PC needed
- Quick analysis of oxidation, nitration, sulfate by-products, antiwear components (ZDDP), and contaminations with water, gasoline, diesel, ethylene glycol (antifreeze), and soot
- 15-year warranty on IR source, laser, and interferometer



Lyza 7000



Detector	Pyroelectric DLaTGS detector
Optics	Hermetically sealed aluminum casing with gold-coated mirrors, KBr windows, and beam splitter
Signal-to-noise ratio	55,000:1 (1 min, 8 cm ⁻¹ , 2,100 cm ⁻¹ to 2,200 cm ⁻¹)
Spectral range	350 cm ⁻¹ to 7,500 cm ⁻¹
Spectral resolution	1.4 cm ⁻¹ to 16 cm ⁻¹
Wavenumber accuracy	<0.05 cm ⁻¹ (at 900 cm ⁻¹ to 3,000 cm ⁻¹)
Wavenumber precision	Repeatability <0.0005 cm ⁻¹ at 2,000 cm ⁻¹ (standard deviation of 10 repeated measurements)
Photometric accuracy	Better than 0.06 % transmittance
Typical measurement time	<30 seconds
Laser type	Single-mode vertical cavity surface emitting laser (VCSEL)
Laser class	Class 1, enclosed hermetically
IR source	SiC composite
Interferometer	Permanently aligned cube corner interferometer
Desiccant	Molecular sieve with color indicator, user-replaceable
Operating temperature range	10 °C to 30 °C (50 °F to 86 °F) (non-condensing)
Instrument dimensions (L x W x H)	365 mm x 315 mm x 382 mm (14.4 in x 12.4 in x 15 in)
Weight	12.8 kg (28.2 lbs)
Display	10.1", PCAP touchscreen, multitouch
Controls	Touchscreen, optional keyboard, mouse, and barcode reader