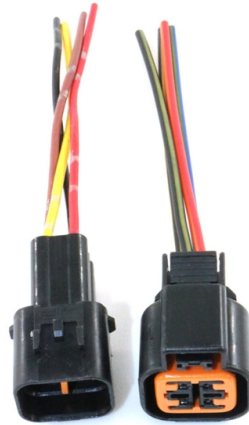


Q100 Spectrometer



AI Overview

The Spectroil Q100 is a bench-top elemental spectrometer designed for rapid, multi-element oil analysis using Rotating Disc Electrode (RDE) technology.

Overview and Applications The Spectroil Q100 is primarily used for oil, lubricant, hydraulic fluid, coolant, and fuel analysis to monitor machinery health and detect wear, contamination, and additive depletion. By analyzing trace elements dissolved or suspended in petroleum-based products, it provides early warning of abnormal wear and helps identify the source of problems based on component metallurgy. It is widely used in commercial, military, and high-performance environments, including Formula One racing teams.

Technology and Operation The Q100 employs Rotating Disc Electrode (RDE) optical emission spectroscopy, a proven technique compliant with ASTM D6595 for wear metals and contaminants, and ASTM D6728 for alkali contaminants in fuels. The system features:

- Rapid 30-second analysis for immediate results
- Solid-state optics and temperature-stabilized CCD system for high-resolution, reliable measurements
- Multi-element capability, with the option to add 13 additional elements without hardware upgrades
- No solvents or gases required, making it environmentally friendly and cost-effective
- Compact bench-top design, saving laboratory space while maintaining mil-spec equivalent performance
- Software and Data Management

The Q100 includes intuitive software for managing multi-element analysis, exporting data to asset management systems, or integrating with SpectroTrack, a web-based information management system optimized for in-service lubricant monitoring. This allows for trend analysis and predictive maintenance planning, potentially reducing downtime and repair costs.

Benefits Early detection of wear and contamination to prevent machinery failure. Rapid, on-site analysis without complex sample preparation. Environmentally responsible operation due to no solvent or gas requirements. Versatile element analysis for lubricants, fuels, coolants, and g...

Article Content

New Oil Analysis Spectrometer Petro Online

The Spectroil Q100 is the ideal spectrometer for the in-service oil analysis because technology has made it smaller and the addition of an innovative CCD optical system has made it

Chirascan Q100 User Manual

It is assumed that the user of this document is familiar with the operation of the Chirascan Q100 and with Applied Photophysics' Chirascan software. In particular, it is assumed that the user is familiar with

Elemental Analysis Using the Spectroil Q100 Spectrometer

Using the time-tested technology of rotating disc electrode (RDE) atomic emission spectroscopy, the Spectroil RDE spectrometer performs wear

Spectroil Q100 - The Next Generation of Oil Analysis

The Spectroil Q100 is the ideal spectrometer for the in-service oil analysis laboratory because technology has made it smaller and the addition of an innovative CCD

Spectroil Q100

Spectroil Q100 Oil Analysis Spectrometers | 51 2. Reopen the Spectroil software by selecting it from the Start menu or the shortcut on the desktop. After the communications are up select Operations/User

Spectroil 100 Series: Precision Fluid Analysis | PDF

Datasheet Spectroil Q100_pam - Free download as PDF File (.pdf), Text File (.txt) or read online for free. The Spectroil 100 Series is a market-leading RDE-OES

Spectroil Q100 Oil Analysis Spectrometers by Spectro Inc.

The Spectroil Q100 uses the same technology and design concepts that Spectro has successfully applied over the years to the Spectroil M family of

Spectroil Q100 Operator & User Maintenance Manual

Operator and User Maintenance Manual Spectroil Q 100 Oil Analysis Spectrometer
160 Ayer Road Littleton, MA 01460 U.S. • Tel. 978.486 • Fax 978.

Spectroil Q100

The Spectroil Q100 is a cutting-edge elemental spectrometer designed for wear debris analysis and contamination detection and trace levels. Compliant with ASTM D6595, this bench-top system

Chirascan Q100

Chirascan Q100 provides detailed insight into the Higher Order Structure (HOS) characteristics of complex biomolecules. Reproducible robotics and high

Spectro Spectroil Q100

Spectroil Q100 Rotating Disc Electrode Optical Emission Spectrometer (RDE-OES) is the eighth generation of the market leading RDE elemental spectrometer.

Spectroil Q100

The Spectroil Q100 does not require solvents, sample dilution or the need for gases. Coupled with 30-second analysis time and the ability to handle multiple elements simultaneously, you can quickly

SpectrOil 100 Series

The SpectrOil 100 Rotating Disc Electrode Optical Emission Spectrometer (RDE-OES) is the eighth generation of the market leading RDE elemental

SpectrOil 100 Series

SpectrOil 100 Series is a precision benchtop RDE-OES elemental analyzer for lubricants, fuel, coolants and water. The SpectrOil 100 Rotating Disc Electrode

Spectroil Q100 – The Next Generation of Oil Analysis

The new Spectroil Q100 maintains this tradition and was designed from the ground up with the user, the application, and the in-service oil analysis laboratory in

Biolab Spectroil Q100 Oil & Fuel Elemental Analysis

Biolab products, including Biolab Spectroil Q100 Oil & Fuel Elemental Analysis Spectrometer, are sourced through parallel import channels and delivered to our

Biolab Spectroil Q100 Oil & Fuel Elemental Analysis Spectrometer

Get the best price and fastest delivery for Biolab Spectroil Q100 Oil & Fuel Elemental Analysis Spectrometer from Biolab. Imtek Engineering offers worldwide industrial equipment supply with

Circular Dichroism

Applied Photophysics are specialists in Circular Dichroism and Stopped-Flow Spectrometry, providing solutions for the Biophysical Characterization of Biomolecules worldwide.

Spectroil Q100 Oil Analysis Spectrometer

The Spectroil Q100 is the ideal spectrometer for the in-service oil analysis laboratory because technology has made it smaller and the addition of an innovative CCD optical system has made it

SpectrOil 100 Product Information SpectrOil Models and Calibration ...

Spectroil 100 Series Laboratory Precision is a precision Rotating Disk Electrode, Optical Emission Spectrometer (RDE-O Measure sub-ppm elemental concentrations with high-purity carbon

Circular Dichroism (CD)

The Q100 spectrometer is equipped with an autosampler. The very-short pathlength (0.1 mm) autosampler flow cell can be used to minimize buffer contributions to the sample absorbance.

Ametek Spectro Spectroil Q100 Oil Analysis Elemental

The Spectroil Q100 uses the same technology and design concepts that Spectro has successfully applied over the years to the Spectroil M family of

SPECTROIL Q100

The Spectroil Q100 uses the same technology and design concepts that Spectro has successfully applied over the years to the Spectroil M family of spectrometers. It is the next step in design and

Spectroil Q100 Elemental Spectrometer

Spectroil measures trace quantities of elements dissolved or suspended as fine particles in natural or synthetic petroleum based products using the time-tested

Contact Us

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