

# SPECTROMETRIC OIL ANALYZER (SOAP)

Model No.: LI/SOAP-510



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The Laversab SOAP Analyzer, model LI/SOAP-510, stands as a state-of-the-art Rotating Disc Electrode (RDE) Spectrometer crafted to exceed the most stringent analytical requirements in the realm of oil analysis. Leveraging CMOS optics equipped with the latest generation ultra-high-resolution detectors, this spectrometer achieves fully quantitative determination of metallic elements in oils and lubricants.

Its compact yet rugged design not only ensures durability but also enables the analyzer to deliver exceptional accuracy and precision, all while maintaining low detection limits, without compromising on cost-effectiveness. With the capability to analyze over 33+ elements and achieve detection limits as low as 0.01ppm, this RDE optical emission spectrometer emerges as the ideal choice for a diverse range of quality-conscious users.

The LI/SOAP-510 model is at the forefront of technology, offering a reliable solution for those seeking unparalleled performance in oil analysis, making it an indispensable tool for various industries where precision and economy are paramount.

## Innovative Optics Driving Optimal Value

The Laversab SOAP Analyzer, model LI/SOAP-510, sets a new standard with its ultra-high resolution dual optics, integrating the latest generation CMOS detectors and custom-developed optical components. This innovative design not only establishes class-leading resolution but also translates into lower detection limits, enhanced stability, and superior elemental coverage, surpassing other Optical Emission Spectrometers in its class.

Adding to its prowess, the entire optical system of the LI/SOAP-510 is hermetically sealed and thermally stabilized at a low temperature. This strategic design minimizes thermal noise, contributing to further improved performance and reliability.

With a comprehensive range capability spanning 165-800 nm, and an optional optics module dedicated to Sulphur analysis, the LI/SOAP-510 covers all essential elemental lines. In standard configurations, it is capable of analyzing 33+ elements across various bases, with potential for expanding further. This spectrometer delivers unparalleled resolution and precision, facilitated by custom-developed components and applications, ensuring accurate analyzes even at extremely low concentration levels down to 0.01 ppm. This makes the Laversab LI/SOAP-510 the ideal solution for the most demanding applications, establishing itself as a cutting-edge tool for precise and reliable elemental analysis.

Technical Specifications	Details
Optics	<ul style="list-style-type: none"><li>Multi-optics system using the latest-generation, high-resolution detectors.</li><li><b>Wavelength Range:</b> 165-800mm</li><li>The focal length of up to 400mm</li><li>Gratings of 2,400gr/mm &amp; 3,600gr/mm (Under UV Optics)</li><li>Thermally stabilised optics to ensure high precision and stability.</li></ul>
Power Source	<ul style="list-style-type: none"><li><b>Digital Source:</b> 90-270 VAC; 50/60Hz</li></ul>
Accessories and Options	<ul style="list-style-type: none"><li>Sulphur Analysis (DUV Optics)</li><li>Oil Standards (CRMs)</li><li>Argon Purifiers</li></ul>



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