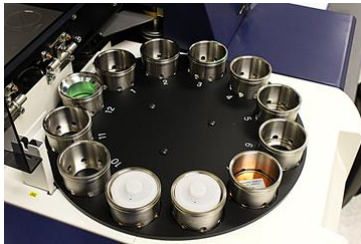




A World of Lubrication Understanding

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Savant Labs Highlight ASTM D6443 Chlorine by XRF



Our customers often tell us – they trust Savant Labs. “Close enough” testing can result in expensive reformulation due to the accumulation of inaccuracies. Savant Labs customers rely on us to be at the leading edge of precision technology. Savant values quality and precision as much as you do.

We are excited to announce an innovation in precision – XRF quantification of elemental chlorine. Savant Labs has installed a new XRF unit to run the ASTM D6443 method. With this new equipment, the chlorine **detection level is 4 ppm, with a quantification limit of 15 ppm or higher**. Our new XRF offers a significant improvement over the previously reported values of <50 ppm. Savant Labs also earned ISO/IEC 17025:2005 Accreditation for ASTM D6443 in June 2016.

Aids Blending and Quality Control

At Savant Labs, we understand that formulators like to maximize the additive molecules in their toolkit to accomplish the essential lubricant performance requirements. Through the process of developing new blended products, often additives are used which can act as detergents, anti-oxidants, and anti-wear agents. Some of these additives can contain elemental concentrations of chlorine. ASTM Method D6443 describes using a wavelength dispersive X-Ray Fluorescence (XRF) instrument to measure the chlorine content of a formulated lubricant blend. The ASTM D6443 test can aid in the blending and quality control during the developmental phase to ensure formulations will meet chlorine content specifications. For example, XRF testing is part of dexos™ 1:2015 certification for engine oils.

Elemental Scan

Savant Labs can also offer qualitative elemental scan testing using XRF techniques. Elements from oxygen through uranium can be detected providing a good way to investigate lubricant contamination. XRF techniques can measure elemental concentrations in liquids with suspended solids or greases, where ICP methods are limited. If elemental content data can help solve your lubricant problem, please [contact us](#).

Because Quality Matters

With the combination of Savant Labs' expert analysts and state-of-the-art equipment, we are

positioned to offer some of the most precise data found in the industry to date. Regular instrument calibration and maintenance to meticulous reference values and control chart monitoring is part of the quality regimen. Also, all test results undergo a stringent quality review process and data is delivered on time and reported via email in a logical format designed for easy interpretation.

Additional Testing Needs

ASTM D6443 and qualitative elemental scans can complement other test methods for lubricating oils and additives including ASTM D4951, ASTM D2622, and ASTM D5185. Please visit the Savant Labs website for an expansive list of our laboratory testing services. Should you have additional testing needs, please contact us, request a quote, or email Norm Kanar, Marketing & Sales Manager, nkanar@savantgroup.com with your request.

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