Press Release

Lube Oil Analysis with Rigaku Supermini200 Benchtop WDXRF Spectrometer

The Woodlands, TX – September 20, 2012. Rigaku Corporation is pleased to announce the publication of a new application report on the Rigaku Supermini200, the world's only benchtop WDXRF spectrometer and the latest in a series of revolutionary compact WDXRF systems from Rigaku. Application Note #5039 describes the analysis of unused lubricating oils and additives for a variety of inorganic elements following ASTM method D6443-04. The report covers sample preparation, method calibration and repeatability analysis.

The composition of lubricant oils and their additives has a significant effect on their functional properties. As the desired performance specifications of these lubricants have become tighter, the need for precise, accurate analysis has increased. To realize greater cost-efficiency, the lubricant industry is turning to tools that not only meet the new performance requirements but are also easier and less expensive to acquire, install and maintain. Wavelength-dispersive X-ray fluorescence spectrometry (WDXRF) is displacing wet chemistry and other labor-intensive analytical techniques, but typical floor-standing units have special space and facility requirements, including electrical power and cooling water. The Supermini200 offers comparable precision and resolution, as well as excellent sensitivity for light elements, in a lower-cost benchtop package, giving lubricant and additive manufacturers a compact and convenient alternative to the large, high-power WDXRF systems.

Application Note #5039 demonstrates that lubricating oils and additives can be routinely analyzed with exceptional accuracy, sensitivity and repeatability using a benchtop WDXRF spectrometer with minimal site requirements.

A copy of this application report may be requested at: http://www.rigaku.com/products/xrf/supermini/app5039.

About Rigaku

Since its inception in Japan in 1951, Rigaku has been at the forefront of analytical and industrial instrumentation technology. Rigaku and its subsidiaries form a global group focused on general-purpose analytical instrumentation and the life sciences. With hundreds of major innovations to their credit, Rigaku companies are world leaders in X-ray spectrometry, diffraction, and optics, as well as small molecule and protein crystallography and semiconductor metrology. Today, Rigaku employs over 1,100 people in the manufacturing and support of its analytical equipment, which is used in more than 70 countries around the world supporting research, development, and quality assurance activities. Throughout the world, Rigaku continuously promotes partnerships, dialog, and innovation within the global scientific and industrial communities.

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