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Bruker Introduces Portable XRF MARPOL CTX™ 500S Analyzer for Easy Testing of IMO 2020 Low Sulfur Fuel Oil Requirements

KENNEWICK, Washington – January 28, 2020 – In response to the significant reduction of the maximum permissible levels of sulfur in marine fuels from 3.5 percent to 0.5 percent, as enforced by the International Maritime Organization (IMO) from the beginning of 2020, Bruker now offers a complete solution to test and verify the adherence to the IMO 2020 Low Sulfur Fuel Oil Standard Requirement. The new MARPOL package is based on the portable X-ray fluorescence (XRF) analyzer [CTX™ 500S](#), and includes a ready-to-go MARPOL calibration set-up, a quality control (QC) kit with sample cups, XRF safety foil and QC standards.

The non-destructive XRF technology of the [CTX™ 500S](#) enables reliable identification of elements present in solid or liquid samples, and precise determination of their amounts. With its calibration set-up, specifically developed for MARPOL applications, the instrument provides detection limits of 30 ppm (3σ) for sulfur, making it the tool of choice for quick and accurate marine fuel testing at service labs, supply stations, on docks, in ports and aboard ships, even for the ultra-low 0.1 percent sulfur limit which continues to be the standard in Emission Control Areas (ECA).

Fuel samples can be placed inside the analysis chamber using sample cups or other liquid containers. All user operation is through an easy-to-use front panel touchscreen display or an optional PC via Wi-Fi or USB.



CTX™ 500S Portable XRF Analyzer

Tim Heek, Product Manager for Bruker's handheld, mobile and portable XRF products, commented: "Our newest portable XRF analyzer, the [CTX™ 500S](#), was designed with the needs of MARPOL measurements in mind. This small, lightweight, battery operated, safety interlocked, and self-contained instrument is ideal for analyzing liquid samples, such as marine fuel oils. A fitted LowePro Pro Runner™ RL backpack carry case is available to make it easy to transport, e.g. up and down ladders."

For more information please visit our website: www.bruker.com/maritime-sulfur and www.bruker.com/how-xrf-works

About Bruker Corporation

Bruker is enabling scientists to make breakthrough discoveries and develop new applications that improve the quality of human life. Bruker's high-performance scientific instruments and high-value analytical and diagnostic solutions enable scientists to explore life and materials at molecular, cellular and microscopic levels. In close cooperation with our customers, Bruker is enabling innovation,



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improved productivity and customer success in life science molecular research, in applied and pharma applications, in microscopy and nanoanalysis, and in industrial applications, as well as in cell biology, preclinical imaging, clinical phenomics and proteomics research and clinical microbiology. For more information, please visit: www.bruker.com

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