

LAB-X5000



OBJECTIVES:

- | Rapid sulfur analysis for fast turnaround testing
- | Meeting ASTM D4294, IP336, ISO 8754 methods
- | Minimum user training required

RESULTS:

- | Reliable and fast sulfur results
- | Minimum downtime

CCIC Singapore trusts Hitachi analysers for their sulfur testing requirements

Singapore is Asia's undisputed oil hub and the world's largest bunkering port. China Certification & Inspection Group (CCIC) Singapore set up their oil testing lab in 2007 with sulfur testing as one of the main capabilities. Customers send their oil samples to CCIC for testing and verification, with sulfur being the key element for product grading. It must meet the required specifications. Being a critical test for gas emission and environmental control, CCIC purchased their first LAB-X3500 for testing sulfur in crude oil and petroleum products in 2007.

COMPLIANCE WITH CONFIDENCE

CCIC is an independent third-party certification and inspection organisation with about 300 offices and 200 cooperative labs in over 20 countries worldwide. The Singapore laboratory provides testing and inspection services to various industries including Oil and Gas, Marine and Metals. CCIC Singapore is accredited to ISO 17020; ISO 17025 and the entity is certified to ISO 9001:2008.

When customers entirely rely on CCIC's test results, CCIC required an instrument that they could totally trust. Mr Lu Kim Sun, Deputy General Manager CCIC Singapore said, "The LAB-X was already an established and trusted instrument for robustness and reliability for sulfur testing, so we purchased one unit: "As our business grew and volumes increased, we decided to invest in another instrument and automatically chose the LAB-X due to its proven reliability and ease of use with minimal training".

“ **12 years and three LAB-Xs later, we were confident to purchase the LAB-X5000 after its launch in 2018** ”

In 2018, Hitachi High-Tech launched the LAB-X5000 – the fastest, easiest to use and most versatile model in the 45-year history of the LAB-X. LAB-X5000 is a compact benchtop EDXRF (energy dispersive X-ray fluorescence) analyser with a streamlined user interface and the shortest measurement start sequence on the market, designed to deliver high testing throughput with quality results achieved by any operator. Ms Susan Toh, Laboratory Manager at CCIC says, “the LAB-X5000 has better detection limits and the new interface looks sleek and modern. The after sales support is very fast, with a personal touch. If we have some minor issues in getting the analysis results, solutions are given on the phone by the service staff. This gives us more confidence in Hitachi High-Tech products, and we are happy to recommend these products to our acquaintances”.

IN PREPARATION FOR THE IMO 2020, CCIC EXPANDS CAPABILITIES BY PURCHASING X-MET8000 FOR BUNKER FUEL ANALYSIS

In 2020, the IMO (International Maritime Organisation) will enforce a new sulfur limit of 0.5% for bunker fuel oil. Kim Sun continues, “Ahead of the IMO 2020, IMO’s (International Maritime Organisation) MARPOL Annex VI regulation that will come into force on 1st January 2020, we wanted to expand our capability to test bunker fuel and so we decided to procure a handheld XRF analyser. We selected the X-MET8000 as we trust Hitachi analysers and it complies with ASTM D4294, ISO 8754 and IP 336 sulfur test methods”. The X-MET8000 handheld X-ray fluorescence analyser will be used by surveyors in their bunker department who can bring it on-site or on-board a vessel for immediate testing of fuels to ensure the sulfur content in bunker fuel meets the specifications.

The X-MET8000 handheld analyser weighs 1.5kg to make it easier to take it from site to site and ship to ship. There’s an optional backpack accessory which is ideal for customers who need to carry the analyser into difficult to reach locations, like one typically requires in marine fuels analysis when on-board a ship or at the port.

The X-MET and LAB-X5000 analysers are compatible with ExTOPE Connect – an advanced data management and storage service that allows to store results safely, share data instantly and access the data in real time from any computer.



Testing bunker fuel using X-MET8000

IF YOU’D LIKE TO SEE THE LAB-X5000 IN ACTION VISIT WWW.HITACHI-HIGHTECH.COM/HHA OR BOOK A DEMO.

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LAB-X5000 BENCHTOP XRF ANALYSER EVERY SHIFT. EVERY TEST. EVERY TIME

For over 45 years, our Lab-X analysers have been counted for reliable analysis in production control and testing laboratories.

The Lab-X5000 X-ray fluorescence spectrometer analyses samples faster, easier and more versatile by combining latest software and hardware features built for high-throughput laboratory testing.