Sample reception warehouse of the SGS lab in Antwerp harbor


ARL OPTIM'X requires minimum floor space (SGS Antwerp)

CUSTOMER TESTIMONIAL:

Thermo Scientific ARL OPTIM'X at SGS Belgium-Antwerp

Where speed of sulfur analysis and ease of use form a perfect solution

"For OGC, it is imperative to have an analytical instrument that measures sulfur at ultra- low concentrations in a wide range of fuels with high accuracy within a few minutes…." Erwin V. at SGS Oil, Gas & Chemicals laboratory (OGC)

ARL OPTIM'X XRF benefits

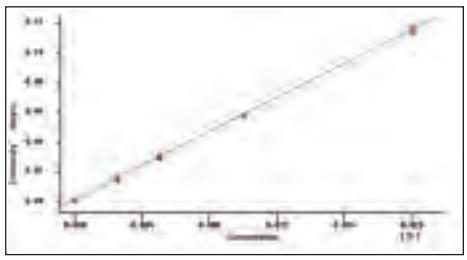
- Unique WDXRF platform with sequential and/or simultaneous capabilities
- Innovative UCCO™ technology combined with SmartGonio™ to achieve highest sensitivity
- 200W equivalent analytical performance from 50W X-ray power
- Wide XRF elemental coverage from fluorine (F) to uranium (U) in sequential mode
- No water cooling required
- Outstanding repeatability and stability to comply with petroleum analysis requirements
- Low cost of ownership
- Optional MultiChromators for faster analysis or better performance on selected elements

SGS Belgium-Antwerp

SGS Group is the globally recognized leader in providing inspection, verification, testing and certification services for a wide variety of industries. Founded in 1878, SGS has a long-standing international reputation for innovation, quality and integrity. With more then 55,000 employees, SGS operates a network of over 1,000 offices and laboratories around the world.

The SGS Oil, Gas & Chemicals laboratory (OGC) located in Antwerp harbor, Belgium is one of the largest contract laboratories in the world specializing in analysis of all manner of light and heavy fuels, lubricating oils, biofuels, chemicals, additives and industrial gases. Operating 24 hours per day 7 days per week, the OGC Antwerp lab not only manages a large daily sample turnover but also reports results directly and rapidly to terminals and customers.

One of OGC's main daily concerns is analyzing sulfur concentrations in fuels in compliance with various international standard methods such as ISO 20884, ISO 14596 and ASTM D2622. Due to increased worldwide environmental regulations related to green-house emissions, sulfur analysis demands have recently increased dramatically. Based on the 2009 Euro 5 standard, maximum sulfur content in regular diesel, biodiesel and gasoline is 10 ppm.



Per ASTM D 2622 or ISO 20884, limits of detection:
1.0 ppm Sulfur in 200 sec.
0.7 ppm Sulfur in 400 sec.

Ease of Use

For OGC, it is imperative to have an analytical instrument that can measure sulfur at ultra-low concentrations in a wide range of fuels with high accuracy within a few minutes.

The ARL OPTIM'X from Thermo Scientific satisfied these requirements in combination with extreme ease of use. For most measurements, no sample preparation is required as with other analytical techniques, so operators come up to speed with very little training necessary.

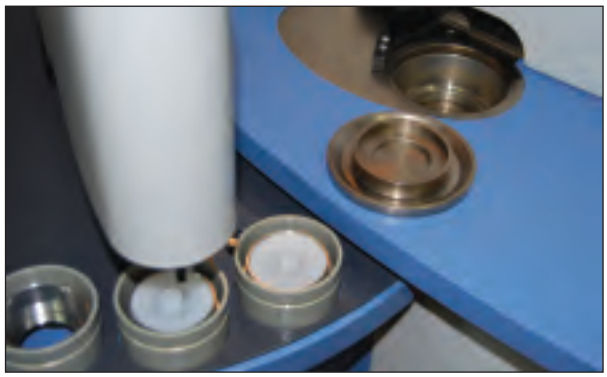
Daily analyses are simple: an operator fills the sample cup, places it in the sample holder, selects the required method and presses start. Results are ready in 3 minutes and the cup is disposed of. As OGC analyst Erwin V. said, "Now everybody who reads this description can use the ARL OPTIM'X.

"One of the reasons we chose a Thermo Scientific system is that – besides the fact that this company is well known in the petroleum industry – we've had very good experiences in maintenance and support from them."

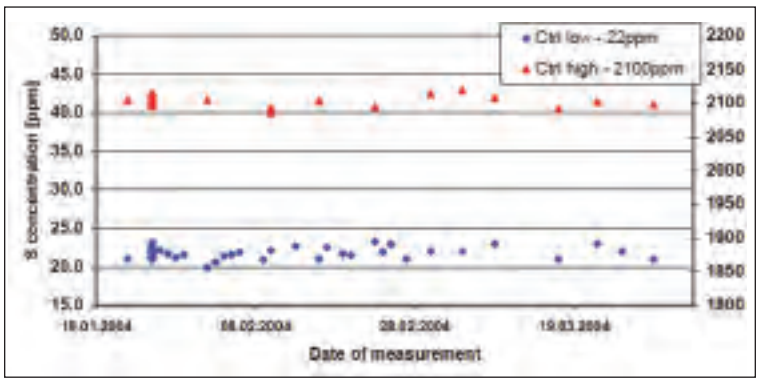
Reliability

The long term stability and reliability (as illustrated below) of the ARL OPTIM'X have also made a very strong impression on the OGC laboratory staff, resulting in SGS Belgium being another well-satisfied ARL OPTIM'X user.

Analyst Erwin V. prepares an XRF sample cup (SGS Antwerp)



Detail of the sample cup loading system (SGS Antwerp)



Typical long term stability for 2 months on ARL OPTIM'X in light and heavy fuels

For more information on ARL OPTIM'X, please visit
www.thermo.com/optisulfur

In addition to these offices, Thermo Fisher Scientific maintains a network of representative organizations throughout the world.

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