

# Marine Fuel Testing

### **IP 570 Proficiency Testing Scheme**

#### IP 570/14a

The IP 570 Proficiency Testing Scheme (PTS) is an inter-laboratory, quality assurance programme which enables users to continually monitor the performance of their  $H_2S$  Analyser in accordance with ISO/IEC 17025. This is achieved by testing a sample with a known, but undisclosed,  $H_2S$  concentration.

## **Aim of Proficiency Testing**

Proficiency Testing is defined as an evaluation of participant performance against pre-established criteria by means of interlaboratory comparison (ISO/IEC 17043). Proficiency Testing aids laboratories in achieving accurate and reproducible results and therefore provides reassurance in the laboratory's testing.

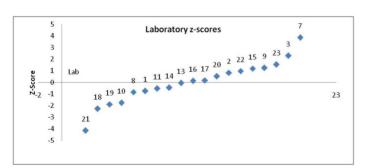
### **Method Compliance**

Validation of apparatus performance is stated as a mandatory requirement at leats every 3 months in IP 570/14a. Participation in the Seta IP 570 Proficiency Testing Scheme is stated as the preferred means to achieve this requirement as it enables laboratories to evaluate their performance for testing  $H_2S$  in the liquid phase using the Seta  $H_2S$  Analyser.

#### **Summary Report Content**

- A table detailing the data reported
- Z-score performance indicators
- An evaluation of the findings
- · Advice relating to any action required
- A summary of the scheme
- · Comments relating to inconsistent data

Z-scores are calculated from taking the ratio of the difference between the mean and the mean test result and the test method reproducibility standard deviation. The Z-score is an indication of performance against the published test method precision.





## Benefits of Participating in the PT Scheme

- Continual validation of laboratory and apparatus performance
- Ability to demonstrate compliance with laboratory accreditation requirements (ISO 17025)
- Diagnostic support provided if incorrect results are reported
- Inter-laboratory comparison of test results and performance
- Identifies problems such as inadequate test or measurement processes and procedures
- Repeat samples available for incorrect and result investigation
- Easy online result reporting
- Z-Score performance indicators
- Identifies problems with the calibration of laboratory test equipment

#### **Quarterly Subscription**

Comprises; 4 PT Scheme kits distributed over a 1 year period. Kits are only distributed in January, April, July and October.