

## Marine Fuel Testing

### H<sub>2</sub>S Analyser with Vapour Phase Processor (VPP)

#### ASTM D7621, IP 570/12A, ISO 8217:2010 Marine Fuel Specification

- Measurement range from 0-250 mg/kg H<sub>2</sub>S (0-250 ppm H<sub>2</sub>S) in the liquid phase
- Vapour Phase Processor proven to eliminate effects of chemical interference
- A non chemical method, no wet chemistry involved
- Small lab bench footprint, fully portable operation
- Suitable for monitoring residual marine fuel blends, refinery feedstock components, cargoes & products in the distribution system
- Critical Measurement method for Product Safety and Release



### Multi Filtration Tester (MFT)

#### Leading measurement technology for checking for filter blocking tendency of Marine Distillate Fuels F-76 Grade DEF STAN 91-5 2008 by IP 387 (Procedures A & B) & ASTM D2068, Correlates with ASTM D6426

- Fully automated operation & easy to use
- Large LCD display
- Results in less than 15 minutes
- Automatic calculation of FBT and F-QF
- Interface for PC/Printer with graphical output of result
- Remote end-of-test alarm option
- Simple calibration/verification of flow, pressure & temperature
- Filter housing & filter packs are available according to test method requirements



### Ignition Quality Tester

#### Marine Gas Oils for Cetane number IP 498/ASTM D 6890/EN 15195 for Marine Distillate Fuels F-76 Grade DEF STAN 91-5 2008

- No need to run ASTM D613 CFR engines - excellent correlation by IQT
- Faster analysis (< 20 mins) with small (<100ml) sample size
- Precise results: Repeatability of 0.88 and Reproducibility of 3.53 at 52 CN
- More flexible refinery feedstock component blending optimisation
- Allows tighter control of cetane additive addition to reduce give away
- Automated test procedure
- Constant Volume Combustion Chamber



## Flash Point Testers for Marine Products

### Setaflash Small Scale Testers for used Marine lubes...

ASTM D3278, D3828, D7236, IP 303 (Obs) Parts 1 & 2, IP 523, IP 524, ISO 3679, ISO 3680, BS EN 456

- Fastest, most cost effective way to check flash point
- Rapid determination of flash point with flash/no flash tests
- Small sample size
- Easy and reliable to use
- Wide temperature range in 'closed' and 'open' cup models



### MultiFlash Flash Point Testers: Pensky-Martens for Marine Fuels...

ASTM D93, IP 34, IP 404, EN ISO 2719 & ISO 15267

- Strict conformity to test methods
- Universal operation
- Fully automatic, easy to use
- Low cost
- Fast & reliable performance
- In-built safety



### Seta Compact Cloud & Pour Point Cryostat

ASTM D97-IP 15; ASTM D2500-IP 219; ASTM D5853 – IP 441; ISO 3015; ISO 3016; EN 23015

- 3 Individually Temperature Controlled Compartments
- 4 Air Wells in each Compartment
- Large Two Litre Capacity Compartments for Temperature Stability
- Two Stage CFC Free Refrigeration
- A compact cloud and pour point cryostat using a two stage CFC free refrigeration system to achieve a temperature range of ambient to -34°C.



### Seta KV-6 Viscometer Bath

Compact, high quality bath manufactured in accordance with ASTM D445-IP 71

- ASTM D445 compliant
- 6 place stirred oil or water bath
- Temperature range ambient to 150 °C
- Temperature stability +/-0.01 up to 100°C
- Temperature stability +/- 0.02 between 100 & 150°C
- Digital display with 0.01°C resolution
- Integral back lighting

