



# CRUDE & REFINERY PRODUCTS TESTING

**SAFETY – LIKE IT SHOULD BE**

Crude is unrefined petroleum product composed of hydrocarbon deposits. Crude oil can be refined to produce products such as naphtha, gasoline, diesel, fuel oils, furnace oil, CBFS, & VGO which are forms of petroleum products. Refining is the complex series of processes that manufactures finished petroleum products out of crude oil. In its crude form, petroleum is of little use to us. To make it into products, petroleum must be refined & separated into its many parts & those parts are what we use to fuel our world. At SGS, we provide you with fast analyses to ASTM, and ISO standards, helping you identify quality.



#### WE CAN HELP YOU:

- Capability to undertake full routine analysis of crude oils.
- Analysis is undertaken in accordance with international standards.
- Provides key indicators with which customers can establish the value of hydrocarbon fluids from new fields and identify potential markets for future crude oil and condensate production.
- Access your results fast – your data and analysis reports are available via our web interface, so you can access your data at any time.

#### OUR SPECIFIC DIAGNOSTIC ANALYSES INCLUDE:

- Appearance – visual
- Acidity – ASTM D 974, 664 IP 139, IS 1448: Part 1
- API Gravity @ 60°F – ASTM D 1298 Conv, D 4052 IP 365 D-287
- Ash content – ASTM D 482 IP 4, IS 1448 P: 4
- Asphaltine Content – IP 143/ D 6560
- B.S. & water – ASTM D 4007, 1796 & 2709
- Carbon residue – ASTM D 189, IP 13
- Carbon residue – ASTM D 524
- Chloride ppm – D 5808, D4929B
- Color (ASTM) – ASTM D 1500 IP 196/ ISO 2049
- Copper corrosion test – ASTM D 130 IP 154 / D 2160
- Density kg/L – ASTM D 1298 IP 160/ ISO 3675
- Density kg/L – ASTM D 4052/ IP 365 / ISO 12185
- Distillation °C – ASTM D 86 IP 123 / ISO 3405 flash point °C – IP 170
- Flash point °C – ASTM D 93
- Hydrogen sulphide content ppm – IP 103 method B / UOP 163, IP570
- Mercaptan sulfur content ppm – ASTM D 3227, IP 342, UOP 163
- Metals content ppm – ICP-Hydride Generator/ ICP USN/ SOP/ THN/-001, IP50

- Pour point °C – ASTM D 97 IP 15/ ISO 3016
- Microcarbon residue – ASTM D4530
- Oxygenates – UOP960
- PINA-DHA analysis – ASTM D 5134
- Chloride – ASTM D5808
- Bromine index – ASTM D 1492
- Bromine number – ASTM D1159
- Mercury – ICP Hydroid generation
- Arcenic – ICP Hydroid generation
- Lead – ICP Ultrasonic
- RVP – ASTM D 323
- Colour – ASTM D 156 – Sabolt
- Unsaturates/ Aromatics/oelifins – ASTM D 1319
- Sulphur – ASTM D 5453, ASTM D 4294
- Nitrogen – ASTM D 5762, ASTM D 4939
- Chloride – ASTM D 5808
- Specific gravity – ASTM D 4052 API – ASTM D 287
- Sediment by extraction – ASTM D 473
- Total sediment potential – ASTM D 4870, IP390
- Total sediment accelerated – IP 390 A
- Sediments by chemical ageing – IP 390 B
- Oxidation stability – ASTM D 2274
- Viscosity – ASTM D 445
- Sediment by hot filtration – IP375

**TO FIND OUT MORE ABOUT OUR FUEL OIL TESTING SERVICES, CONTACT US TODAY**

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**SGS IS THE WORLD'S LEADING INSPECTION, VERIFICATION, TESTING AND CERTIFICATION COMPANY**

**SGS**

**When you need to be sure**