

Proficiency Testing

Petroleum

ISO/IEC 17043



OIL** Oils and Fuels

The LGC OIL scheme is designed specifically to assist chemists and engineers working in the refinery, fuel, used oil and lubricant laboratories.

Petroleum products, such as oils and fuels, are tested throughout their life span from the time the oil is taken from the ground to beyond the petroleum recyclers. The concentration of contaminants and trace elements is vital in ensuring the quality of oil and petroleum products.

Regulations related to cleanliness standards in engines, contamination particles and water in diesel fuel, and many more, mean it is essential that laboratories performing these

measurements are capable of producing accurate data.

If a laboratory is performing the analysis of oils and fuels according to ASTM, IP and ISO protocols, participating in the LGC OIL proficiency testing scheme will enable it to monitor performance and compare it with that of other laboratories worldwide. Consistent good performance will allow laboratories to demonstrate to third parties, customers, regulators and accreditation bodies the quality of their results.

Test Material***Analyte***

#2 Diesel fuel	Acid number, Ash, Base number, BP distribution, Carbon, Carbon residue, Cloud point, Cold filter plugging point, Colour, Copper corrosion, Density, Distillation, Flash point, Heat content, High temp stability, Hydrocarbon type(s), Hydrogen, Lubricity (HFRR) wear scar diameter, Nitrogen, Particulate contamination by filtration, Pour point, Sediment, Sulfur content, Viscosity, Water.
Crude oil	Acid number (total - potentiometric), API gravity, Asphaltenes, Density, HTSD, Iron, Micro carbon residue, Nickel, Nitrogen (total), Pour point, Reid vapour pressure, Relative density, Salt, Sediment, Sulfur, Vanadium, Viscosity, Water.
Engine oil lubricants	Acid number (potentiometric), Ash, Ash sulfated, Barium, Base number, Calcium, Colour, Demulsibility, Density, Evaporation loss (Noack), Flash point, Gelation, Magnesium, Molybdenum, Nitrogen, Phosphorous, Potassium, Pour point, Saponification number, Shear stability, Silicon, Sodium, Sulfur content, Viscosity (HTHS, kinematic, low temperature, tapered bearing, tapered plug), Volatility (GC), Water, Water content, Zinc.
Simulated in service engine oil	Acid number, Aluminium, Antimony, Barium, Base number, Boron, Cadmium, Calcium, Chromium, Copper, Flash point, FTIR (Fuel dilution, Glycol, Nitration, Oxidation, Phosphate, Sulfation, Water), Fuel dilution Glycol, Insoluble, Iron, Lead, Magnesium, Manganese, Molybdenum, Nickel, Particle count, Phosphorous, Potassium, Silicon, Silver, Sodium, Sulphur content, Tin, Titanium, Vanadium, Viscosity, Water content, Zinc.

* The full range and availability of test materials and analytes is determined on an annual basis and may be added or removed. For accredited and non-accredited status please see current application form/scheme description.

** Please note that the OIL scheme is currently not included in our scope of accreditation.



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