

## Oil, Gas and Petroleum Analyses:

Test Name/Description:	Method:	Price:	Min. Sample Vol.:
Alcohol Scan (by GC)	IN-HOUSE	\$85.00	5 mL
Ash content	ASTM D482	\$80.00	100 g
Asphaltenes	modified ASTM D6560	\$140.00	15 g
BS&W	ASTM D1796	\$40.00	100 mL
Calorific Value (or Gross Heat of Combustion)	modified ASTM D4809	\$200.00	10 g
Cloud Point	ASTM D2500	\$70.00	50 mL
Colour and Visual	ASTM D1500	\$15.00	100 mL
Copper Strip Corrosion	ASTM D130	\$50.00	30 mL
Density/Specific Gravity/API Gravity	ASTM D4052 & D5002	\$45.00	10 mL/test temp.
Cetane #	ASTM D6890	\$275.00	100 mL
Flashpoint, Cleveland Open Cup	ASTM D92	\$75.00	100 mL
Flashpoint, Pensky Martens Closed Cup	ASTM D93	\$70.00	100 mL
Carbon Residue (microcarbon)	ASTM D4530	\$70.00	10 g
Carbon Residue, Ramsbottom (requires the 10% distillation residue after D86)	ASTM D524	\$70.00	100 mL
Glycol Analyses - Mass Fraction of EG, DEG, TEG, and Tetra-EG by GC	IN-HOUSE	\$100.00	5 mL
Natural Gas Analysis - Hydrocarbons to C6+, H <sub>2</sub> , N <sub>2</sub> , CO <sub>2</sub> , CO, O <sub>2</sub> , by GC	IN-HOUSE	\$200.00	gas sample container
Physical Distillation	ASTM D86	\$300.00	100 mL
Pour Point	ASTM D97	\$130.00	50 mL
Reid Vapour Pressure	ASTM D323	\$155.00	1L (special container)
SARA (Saturates, Aromatics, Resins, Asphaltenes)	IN-HOUSE	\$800.00	20 g
SOA (Saturates, Non-Aromatic Olefins, Aromatics) by FIA	ASTM D1319	\$275.00	5 mL
SimDist	ASTM D7169	\$300.00	5 mL
SimDist/Carbon#	ASTM D7169/ IN-HOUSE	\$500.00	5 mL
Soxhlet Extraction	IN-HOUSE	\$180.00	125 g
Sulphated Ash	ASTM D874	\$80.00	120 mL
Sulphur Content by XRF (liquids only)	ASTM D7039	\$60.00	25 mL
TAN (Total Acid #)	ASTM D664	\$100.00	10 g
TBN (Total Base #)	ASTM D4739	\$100.00	10 g
Viscosity (Brookfield) (per temperature 5°C to 90°C)	IN-HOUSE	\$65/test temp.	10 mL/test temp.
Viscosity (Kinematic) (per temperature 5°C to 90°C)	ASTM D445	\$65/test temp.	50 mL/test temp.
Water Content (Dean & Stark)	ASTM D95	\$100.00	100mL

## Other Analyses:

Test Name/Description:	Method:	Price:	Min. Sample Vol.:
Chloride/ Inorganic Chloride (water)	IN-HOUSE	\$45.00	50 mL
Foaming tendency	modified ASTM D4921	\$10.00	100 mL
Glycol Analysis Package (Refractive Index, Reserve Alkalinity, pH, and Visual Description)	IN-HOUSE	\$70.00	bottles supplied
Glycol Concentration by Refractive Index	IN-HOUSE	\$40.00	10 mL
Glycol/Water/Methanol by GC-FID	IN-HOUSE	\$250.00	20 mL
pH (water)	IN-HOUSE	\$15.00	50 mL
Refractive Index	IN-HOUSE	\$20.00	10 mL
Reserve Alkalinity (in glycol (EG) solution (anti-freeze))	ASTM D1121	\$35.00	100 mL
Specific Conductivity (water)	IN-HOUSE	\$20.00	50 mL
Sieve Analysis (set of any three sieves)	IN-HOUSE	\$180.00	125 g
TDD (Total Dissolved Solids) /TSS (Total Suspended Solids) in water	ASTM D5907	\$80.00	1 liter
Water Content (Karl Fischer)	ASTM D6304	\$50.00	10 mL

Other ASTM and Standard Methods for petroleum products, crude oils, gases and condensates by quotation.