



## SCOPE OF ACCREDITATION

**Bureau Veritas Canada (2019) Inc., formerly known as Maxxam Analytics  
Petroleum Technology Center  
6744 - 50 Street NW  
Edmonton, AB  
T6B 3M9**

Accredited Laboratory No. 160  
(Conforms with requirements of ISO/IEC 17025:2017)

CONTACT: Maria de Chavez, Lalaine Mabanta  
TEL: +1 780 378 8508 +1 780 577 7151  
FAX: +1 780 378 8699  
EMAIL: EdmontonQA@bvlabs.com  
URL: <http://www.bvlabs.com>

CLIENTS SERVED: All interested parties

FIELDS OF TESTING: Biological, Chemical/Physical

PROGRAM SPECIALTY AREA: Environmental

INITIAL ACCREDITATION DATE: 1995-03-06

SCOPE ISSUED ON: 2019-07-22

ACCREDITATION VALID TO: 2023-03-06

Note: Environmental testings except for Adsorbable Organic Halides, Total Sulfide by Titration, and Air matrices are performed at:

Bureau Veritas  
Edmonton Environmental  
9331 48 Street NW  
Edmonton, AB  
T6B 2R4

### **ENVIRONMENTAL AND OCCUPATIONAL HEALTH AND SAFETY**

#### **Environmental**



Air

PTC SOP - 00128	VOCs by Thermal Desorption Diffusive Tube [EPA 325B] 1, 3-Butadiene Benzene Ethylbenzene m,p-Xylenes o-Xylene Toluene
PTC SOP - 00148	Monitoring NO <sub>2</sub> in the Atmosphere by using All-Season Passive Samplers [SM4500-NO <sub>2</sub> -B/AWMA 91st PAPER 98-TP44.03] Nitrite
PTC SOP - 00149	Monitoring SO <sub>2</sub> in the Atmosphere by using All-Season Passive Samplers [H. Tang, B. Brassard, R. Brassard and E. Peake, "A New Passive Sampling System for Monitoring SO <sub>2</sub> in the Atmosphere" Proceedings, Clean Air '96: Second North American Conference and Exhibition, Nov. 19-22, 1996 Orlando USA] Sulfite
PTC SOP - 00150	Monitoring H <sub>2</sub> S in the Atmosphere by using All-Season Passive Samplers [Hongmao Tang "A New All-Season Passive Sampling System for Monitoring H <sub>2</sub> S in Air" The Scientific World, (2002)2, 155-168] Hydrogen Sulfide
PTC SOP - 00156	Volatile Organic Compounds on Passive Samplers using GC/MS [Modified from BP 36-126-NIOSH Method 1500, Issue 2 (Aug. 15, 1994) and Aromatic-NIOSH Method 1501, Issue 2 (Aug 15, 1994)] 1,1,1-Trichloroethane 1,1,2-Trichloroethane 1,2,4-Trimethylbenzene 1,2-Dichlorobenzene 1,3,5-Trimethylbenzene 1,4-Dichlorobenzene 2-Hexanone 2-methyl-4-Pentanone (MIBK) 3-Ethyltoluene Benzene Chlorobenzene Chloroform Decane d-Limonene Dodecane Ethylbenzene Heptane Isopropylbenzene



Methylcyclohexane

Naphthalene

Nonane

Octane

Styrene

Tetrachloroethylene

Toluene

Trichloroethylene

Undecane

Xylene, Total

PTC SOP - 00157 Monitoring NH<sub>3</sub> in the Atm by using the Ogawa Passive Samplers [ASTM D6919]

Ammonia

PTC SOP - 00197 Monitoring Ozone in the Atmosphere by using Maxxam All-Season Passive Samplers [H. Tang and T. Lau "A New All-Season Passive Sampling System for Monitoring Ozone in Air", Environmental Monitoring and Assessment, 65 (1-2) 129-137, 2000.]

Ozone

#### **Air Filter**

PTC SOP - 00151 Mass Determination of Particulate Matter (PM 2.5 and 10) Gravimetric [Modified from US EPA, Quality Assurance Guidance Document, 2.12: Monitoring PM2.5 in Ambient Air Using Designated Reference or Class I Equivalent Method, Nov. 1998.]

PM10

PM2.5

PTC SOP - 00180 Dustfall, Total and Fixed, Gravimetric [Modified from AMD, Appendix 4-6]

Dustfall, Fixed

Dustfall, Total

#### **Soil/Solid**

AB SOP-00002 Moisture Content in Soil [modified from CCME Petroleum Hydrocarbons In Soil - Tier 1 Method, Gravimetric]

% Moisture

AB SOP-00003 Analysis of PAH in Water, Soil, Oil and Leachates by GC/MS [Modified from EPA 8270, GC/MS]

Also includes Water (Organic)

1-Methylnaphthalene

2-Methylnaphthalene

Acenaphthene

Acenaphthylene



Acridine  
Anthracene  
Benzo (a) anthracene  
Benzo (a) pyrene  
Benzo (b, j) fluoranthene  
Benzo (g,h,i) perylene  
Benzo (k) fluoranthene  
Benzo(c)phenanthrene  
Benzo(e)pyrene  
Chrysene  
Dibenzo (a,e) pyrene  
Dibenzo (a,h) anthracene  
Dibenzo(a,h)pyrene  
Dibenzo(a,i)pyrene  
Dibenzo(a,l)pyrene  
Fluoranthene  
Fluorene  
Indeno (1,2,3 - cd) pyrene  
Naphthalene  
Perylene  
Phenanthrene  
Pyrene  
Quinoline

AB SOP-00004 Determination of Electrical Conductivity by Manual Meter [Modified From SM 2510 B, Conductivity Meter (Manual)] . Also includes Water - Inorganic Conductivity (25°C)

AB SOP-00005 Alkalinity Conductivity Fluoride and pH by PC-Titrate [Modified From SM 2320 B, Titrimetric/PC Titrate, Modified from SM 4500-F C, Ion Selective Electrode/PC Titrate, Modified From SM 2510 B, Conductivity Meter/PC Titrate and Modified From SM 4500-H+ B, pH Meter/PC Titrate] Also includes Water- Inorganic

Alkalinity  
Conductivity (25°C)  
Fluoride

AB SOP-00006 pH  
pH by Manual Meter [Modified From SM 4500-H+ B, pH Meter] Also includes Water - Inorganic

AB SOP-00007 pH  
Ammonia-Nitrogen by Konelab - phenate colorimetric method [Modified From SM 4500-NH3 A,G] Also includes Water - Inorganic Ammonia



AB SOP-00008	TKN by Konelab [Modified From EPA 351.1 Colorimetric] Also includes Water - Inorganic Dissolved Kjeldahl Nitrogen Total Kjeldahl Nitrogen
AB SOP-00012	Total Organic Carbon and Organic Matter in Soil [Modified From Methods Manual For Forest and Plant Analyses, Pages 27-30, Reflux - Titrimetric] Organic Matter Total Organic Carbon
AB SOP-00019	Calcium Carbonate Equivalence by pH [Modified From SSMA 20.2, pH Meter] Calcium Carbonate Equivalence (CCE)
AB SOP-00020	Chloride by Konelab - Automated Ferric Thiocyanate Method [Modified From SM 4500-Cl E, Colorimetric] Also includes Water - Inorganic Chloride
AB SOP-00022	Particle Size Distribution by Sieve Analysis [Modified from ASTM D6913, Gravimetric] % grain size > 75 um % grain size < 75 um Particle Size by sieve (Dry) Particle size by sieve (Special)
AB SOP-00023	Nitrite and Nitrate by Ion Chromatography [Modified from SM 4110B, Ion Chromatography] Also includes Water - Inorganic Nitrate Nitrite
AB SOP-00025	Ortho-phosphate (Dissolved) by Konelab - Ascorbic Acid Reduction Method [Modified from SM 4500-P A, F Colorimetric] Also includes Water - Inorganic Ortho-phosphate
AB SOP-00026	Chloride, Sulphate and Bromide by Ion Chromatography [Modified from SM 4110B, Ion Chromatography] Also includes Water- Inorganic Bromide Chloride Sulfate
AB SOP-00030	PSA by Hydrometer - Texture (Sand, Silt, Clay and Gravel) Analysis [Modified from SSMA 55.3, Hydrometer] % clay % gravel % sand % silt



AB SOP-00033	Preparation of Saturation and Water-Soil Ratio Samples [Modified from SSMA Method 15.2, Gravimetric] % Saturation
AB SOP-00039	Extraction and Analysis of BTEX/F1 by HS/GC/MS/FID Water, Soil and Oil [BTEX: Modified from EPA 8260 and EPA 5021, GC/MS – Headspace and F1: Modified from CCME Petroleum Hydrocarbons In Soil - Tier 1 Method, GC/FID - Headspace] [Also includes Water - Organic, BTEX: Modified from EPA 8260 and EPA 5021, GC/MS - Headspace and F1: Modified from CCME Petroleum Hydrocarbons - Tier 1 Method and EPA 5021, GC/FID - Headspace. [Also includes Leachates - EPA SW-846 1311 and In-House Modified Method, GC/MS - Headspace] 1,2,4-Trimethyl Benzene Benzene Ethylbenzene F1: C6-C10 Hexane m/p-xylene Methyl tert-butyl ether (MTBE) o-xylene Styrene Toluene
AB SOP-00040	Analysis of Extractable Hydrocarbons in Water and Soils by GCFID [Modified from CCME Petroleum Hydrocarbons In Soil - Tier 1 Method, GC/FID, Gravimetric [Also includes Water – Organic, Modified from CCME Petroleum Hydrocarbons In Soil - Tier 1 Method, GC/FID, and Modified from Static Sheen Test (EPA Method 1617), Visual F2: C10-C16 F3: C16-C34 F4: C34-C50 F4: Gravimetric Sheen Total Extractable Hydrocarbons (TEH) (C11-C30)
AB SOP-00042	Metals on Liquids and Solids by ICPOES [Modified from EPA SW-846 6010, ICP/OES] Also includes Water - Inorganic Aluminum Barium Boron Calcium Chromium Iron Lithium Magnesium



	Manganese
	Phosphorus
	Potassium
	Silicon
	Sodium
	Strontium
	Sulfur
AB SOP-00043	Metals Analysis on Soils and Waters Using ICPMS [Modified from EPA SW-846 6020, ICP/MS] Also includes Water - Inorganic and Paint. Also includes Leachates - EPA SW-846 1311 and In-House Modified Method.
	Aluminum
	Antimony
	Arsenic
	Barium
	Beryllium
	Boron
	Cadmium
	Chromium
	Cobalt
	Copper
	Iron
	Lead
	Magnesium
	Manganese
	Mercury
	Molybdenum
	Nickel
	Selenium
	Silver
	Thallium
	Tin
	Titanium
	Uranium
	Vanadium
	Zinc
	Zirconium
AB SOP-00049	Particle Size Distribution by Hydrometer [Modified from ASTM D7928, Hydrometer]
	Particle Size Distribution
AB SOP-00050	Dry Bulk Density and Wet Bulk Density [Modified from MSSMA Section 2.21, Gravimetric]
	Dry Bulk Density



AB SOP-00056

Preparation and Analysis VOC/F1 Water and Soil by  
HS/GC/MS/FID [Modified from EPA SW-846 8260 and EPA SW-  
846 5021, GC/MS - Headspace] Also includes Water - Organic

1,1,1,2-Tetrachloroethane

1,1,1-Trichloroethane

1,1,2,2-Tetrachloroethane

1,1,2-Trichloroethane

1,1-Dichloroethane

1,1-dichloroethylene

1,2,3-Trichlorobenzene

1,2,4-Trichlorobenzene

1,2,4-Trimethylbenzene

1,2-dichlorobenzene

1,2-dichloroethane

1,2-Dichloropropane

1,3,5 Trichlorobenzene

1,3,5-Trimethylbenzene

1,3-Dichlorobenzene

1,4-dichlorobenzene

Benzene

Bromodichloromethane

Bromoform

Bromomethane

Carbon Tetrachloride

Chlorobenzene

Chlorodibromomethane

Chloroethane

Chloroform

Chloromethane

cis-1,2-Dichloroethylene

cis-1,3-Dichloropropene

Dichloromethane

Ethylbenzene

Ethylene Dibromide

m/p-xylene

Methyl methacrylate

Methyl t-butyl ether

o-xylene

Styrene

Tetrachloroethylene

Toluene

trans-1,2-Dichloroethylene

trans-1,3-Dichloropropene





	Trichloroethylene
	Trichlorofluoromethane
	Vinyl Chloride
AB SOP-00062	Flashpoint by Small Scale Closed Cup Tester (Setaflash) [Modified from ASTM D3828 Method A, Seta Flash Closed Cup] Also includes Water – Inorganic
	Flashpoint Temperature
AB SOP-00063	Hexavalent Chromium by Konelab [Modified from SM 3500-Cr B, Colorimetric] Also includes Water - Inorganic
	Hexavalent Chromium
AB SOP-00067	Elemental Sulphur [Modified from Canadian Journal Of Soil Science, 65, Pp 811-813, Colorimetric] (Only for Soils)
	Elemental Sulphur
AB SOP-00082	Nitrite and Nitrate by Technicon [Modified from Atlas Chemical Industries Industrial Method No. 857-871, Colorimetric] Also includes Waters - Inorganic
	Nitrate
	Nitrite
EENVSOP-00061	Phenols Technicon [Modified from Methods Manual for Chemical Analysis of Water and Wastes, Updated, Alberta Enviro. Centre, Phenolics, Method Code 154 EPA 9066, SSMA 40, Colorimetric] Also includes Waters - Inorganic
	Phenols
EENVSOP-00062	The Determination of Cyanide by Technicon [Modified from SM 4500-CN, Colorimetric] Also includes Water - Inorganic
	Cyanide (SAD)
	Cyanide (WAD)
	Total Cyanide
	Water soluble Cyanide

### **Soil/Solid Industrial Waste**

AB SOP-00045	Specific Gravity [Modified from SM 2701 F, Petroleum and Natural Gas Industries- Field Testing of Drilling Fluids, Specific Gravity] Also includes Water - Inorganic Specific Gravity
AB SOP-00047	Free Liquid (Paint Filter Test) [Modified from EPA 9095, Volumetric] Free Liquid in Waste Samples

### **Water (Inorganic)**



AB SOP-00011	Silica (Reactive) by Konelab - Molybdate/ANSA Reduction Method [Modified From EPA 370.1, Colorimetric] Reactive Silica
AB SOP-00016	Chemical Oxygen Demand (Total and Dissolved) [Modified From SM 5220 D, Colorimetric] COD
AB SOP-00017	Biochemical Oxygen Demand [Modified From SM 5210 B, D.O. Meter] BOD (5 day) CBOD (5 day)
AB SOP-00018	Sulfate by Konelab - Automated Turbidimetry Method [Modified From SM 4500-SO <sub>4</sub> E, Turbidimetric] Sulfate
AB SOP-00024	Total Phosphorus by Konelab - Ascorbic Acid Reduction Method [Modified from SM 4500-P A, B, F, Colorimetric] Total Phosphorus
AB SOP-00032	The Determination of Residual Chlorine in Waters [Modified from SM 4500-Cl G, Colorimetric] Free Chlorine Total Chlorine
AB SOP-00041	Ferrous and Ferric Iron in Water-Colorimetric Determination [Modified from SM 3500-Fe A, B, Colorimetric] Ferrous Iron
AB SOP-00058	Dissolved Oxygen- Modified Winkler Method [Modified from SM 4500-O C, Titrimetric] Dissolved Oxygen
AB SOP-00061	Total Suspended Solids, Total Fixed Solids, and Total Volatile Solids [Modified from SM 2540 C, D, E, Gravimetric] Fixed Solids Total Suspended Solids Volatile Suspended Solids
AB SOP-00065	Total Dissolved Solids (TDS) [Modified from SM 2540 C, D, E, Gravimetric] Total Dissolved Solids
AB SOP-00080	Low Level Sulfide [Modified from SM 4500-S <sub>2</sub> D, Colorimetric] Sulfide
AB SOP-00087	Organic Carbon by Technicon - Persulfate UV Oxidation [Modified from Methods Manual For Chemical Analysis Of Water and Wastes, Updated, Alberta Enviro. Centre, Method Code 119, Colorimetric] Organic Carbon
EENVSOP-00031	Mercury in Water Samples by Cold Vapour Atomic Absorption Spectrometry [Modified from EPA 245.7, Cold Vapour AA] Mercury



EENVSOP-00065	True Colour [Modified from SM 2120 C, Colorimetric] True Colour
EENVSOP-00066	Turbidity - Nephelometric Method [Modified from SM 2130 B, Nephelometric] Turbidity
EENVSOP-00093	Oil and Grease Water Analysis by Gravimetric Hexane Extraction Method [Modified from SM 5520 B, Gravimetric] Total Oil and Grease Total Petroleum Hydrocarbons (TPH)
EENVSOP-00146	Manganese Divalent Species in Water and Wastewaters [Modified from Hach Method 8149, Colorimetric] Divalent Manganese
EENVSOP-00159	pH Analysis in Bioassay Lab [Modified From SM 4500-H+ B, pH Meter] pH
PTC SOP -00173	Sulphide - Total, Titration Method [SM 4500-S2 F]

### **Water (Microbiology)**

AB SOP-00085	Determination of Iron Related and Sulfate Reducing Bacteria [DBI Biological Activity Reaction Test BART User Manual and modified from DBI Lab-BART Test for IRB and SRB instructions leaflet, BART] Iron Related Bacteria (IRB) Sulfate Reducing Bacteria (SRB)
AB SOP-00089	Total and Fecal Coliforms and E.Coli by Defined Substrate Technique [Modified from SM 9223 A, B, Most Probable Number (Colilert)] Escherichia coli (E. coli) Total Coliforms
EENVSOP-00157	Fecal Coliforms by Membrane Filtration [Modified from SM 9222, D, Membrane Filtration] Fecal (Thermotolerant) Coliforms
EENVSOP-00163	Heterotrophic Plate Count [Modified from SM 9215 A, B, Pour Plate] Heterotrophic Plate Count (HPC)

### **Water (Organic)**

(Adsorbable Organic Halides - Water [028])



PTC SOP - 00056      Adsorbable Organic Halides [AE128.1 March 1992/ ASTM D4744]  
Colormetric Titration

### **Water (Toxicology)**

AB SOP-00083      15 min. Microtox BioAssay using *Vibrio fischeri* [EPS 1/RM/24,  
Bioluminescence]  
Microtox IC50 (15 min)

EENVSOP-00154      48-Hr Acute Static Bioassay using *Daphnia magna* [EPS 1/Rm/11  
and EPS 1/RM/14, Acute Lethality (Survival)]  
Daphnia LC50 (48 h)  
Daphnia Single Concentration (48h)

EENVSOP-00155      *Ceriodaphnia dubia* Reproduction Inhibition and 7-Day Survival  
Chronic [EPS 1/RM/21, Survival and Reproduction Inhibition]  
*Ceriodaphnia dubia* (7d)

EENVSOP-00156      Fathead Minnow Larval Growth and Survival 7 Day Chronic Test  
[EPS 1/RM/22, Survival and Growth Inhibition]  
Fathead Minnow (7d)

EENVSOP-00160      96-Hour Acute Static Bioassay using Rainbow Trout [EPS 1/RM/9  
and EPS 1/RM/13, Acute Lethality (Survival)]  
Trout LC50 (96 h)  
Trout Single Concentration (96h)

## **NON METALLIC MINERALS AND PRODUCTS**

### **Petroleum Refinery Products: (Including asphalt materials; petrochemicals; fuels and lubricants)**

#### **Fuels and Lubricants**

PTC SOP-00010      Determination of Water in Lubricating Oil by the Visual Crackle Test  
[Fitch, J. C., The Lubrication Field Test and Inspection Guide, Noria  
Publishing, Booklet, 2000]

PTC SOP-00011      Additives, Wear Metals and Contaminants in Lubricating Oils by  
ICPOES  
[ASTM D5185]

PTC SOP-00012      Kinematic Viscosity of Lubricating Oils  
[ASTM D7279]

PTC SOP-00013      Oxidation, Nitration, Sulphation and Soot of Engine oils by FTIR  
[ASTM D7418]

PTC SOP-00014      Determination of Fuel Dilution for In-Service Engine Oils by GC  
[ASTM D7593]



PTC SOP-00015	Determination of Glycol Contamination for In-Service Engine Oils by GC [ASTM D7922]
PTC SOP-00017	Base Number of Lubricating Oils by Potentiometric Titration [D4739]
PTC SOP-00018	Water Content in Lubricating Oils by Coulometric KF Titration [ASTM D6304]
PTC SOP-00020	ISO Particle Count of Lubricating Oils Using an Optical Particle Counter [ISO 11500:2008]
PTC SOP-00027	Soot Percentage of Diesel Engine Oil by Wilks Soot Meter
PTC SOP-00028	PQ Index of Lubricating Oil
PTC SOP-00029	Analysis of Hydrocarbon Condensates by Heated Flash [GPA 2177, 2186, 2103, 2261]
PTC SOP-00030	Analysis of C4 Components in Condensate [GPA 2177]
PTC SOP-00031	Calibration and Analysis of Trace Sulfur Compounds in Petroleum Products [ASTM D-5504 Modified]
PTC SOP-00033	Calibration and Analysis of Trace Sulfur Compounds in Petroleum Products [ASTM D5623]
PTC SOP-00035	Analysis of Elemental and Polysulphide Sulphur ["Quantitative Determination of Elemental Sulphur in Hydrocarbons, Soils, and Other Materials", Journal of Chromatographic Science, Vol. 27, May 1989 by P.D. Clarke & K.L. Lesage]
PTC SOP-00036	Hydrocarbon C30 Analysis by Gas Chromatography [ASTM D2887/CAN/CGSB 3.0, No.14.3]
PTC SOP-00037	Density of Light Hydrocarbons (condensate) by Digital Densitometer [ASTM D4052/ ASTM D5002]
PTC SOP-00038	Trace Methanol by Gas Chromatography [UOP 569 (modified)]
PTC SOP-00039	Boiling Range Distribution by ASTM D7900
PTC SOP-00044	Analysis of LPG/NGL to C15+ (Extended) [GPA 2186]
PTC SOP-00045	Ponau Analysis [CAN/CGSB 3.0 No. 14.3]
PTC SOP-00048	Hydrocarbon C100 Analysis by Gas Chromatography [ASTM D6352]
PTC SOP-00049	Component Analysis of Glycols, Amines, and Sulfinols by GC [UOP 523 modified]



PTC SOP-00050	Total Organic Halogens and Organic Chlorides [modified ASTM D4929]
PTC SOP-00051	Boiling Range Distribution of Petroleum Fractions by Gas Chromatography [ASTM D2887]
PTC SOP-00052	High Pressure Density [ASTM D4052/5002]
PTC SOP-00054	Extractable Organic Halogens [U.S EPA 9023]
PTC SOP-00055	Boiling Range Distribution by ASTM D6352
PTC SOP-00057	Total Base Number of Lubricating Oils by Potentiometric Titration [ASTM D2896]
PTC SOP-00058	Molecular Weight by Freezing Point Depression [Cryette Instrument Manual]
PTC SOP-00062	Analysis of Hydrocarbon Gas [GPA 2286]
PTC SOP-00067	Measurement of Viscosity by Cannon - Fenske Opaque Viscometer [ASTM D445;D446]
PTC SOP-00068	Pour Point Analysis of Petroleum Products [ASTM D97; D5853]
PTC SOP-00071	Distillation of Petroleum Products at Atmospheric Pressure [ASTM D86]
PTC SOP-00072	Reid Vapour Pressure of Petroleum Products [ASTM D323A]
PTC SOP-00082	Flash-Point by Pensky-Martens Closed Cup Tester [ASTM D93]
PTC SOP-00083	Detection of Copper Corrosion from Petroleum Products by the Copper Strip [ASTM D130]
PTC SOP-00084	Water and Sediment in Crude by the Centrifuge Method (Laboratory Procedure) [ASTM D4007; ASTM D1796; ASTM D2709]
PTC SOP-00089	Aniline Point of Petroleum Products [ASTM D611]
PTC SOP-00091	Electrical Conductivity of Aviation and Distillate Fuels [ASTM D2624]
PTC SOP-00092	Free Water and Particulate Contamination in Distillate Fuels (Visual Inspection Procedures) [ASTM D4176]
PTC SOP-00093	Filterability of Diesel Fuels by Low Temperature Flow Test (LTFT) [ASTM D4539]
PTC SOP-00097	Determination of Bitumen, Water, Solids by Dean Stark Method [Alberta Research Council Oil Sands Analytical Method Manual, Chapter 1, Method 1.00]
PTC SOP-00099	Density and Relative Density of Liquids by Digital Density Meter [ASTM D4052]



PTC SOP-00100	Density and Relative Density of Crude Oils by Digital Density Analyzer [ASTM D5002]
PTC SOP-00103	Total Acid Number of Petroleum Products by Potentiometric Titration [ASTM D664]
PTC SOP-00105	Water in Petroleum Products by Coulometric Karl Fischer Titration [ASTM D4928]
PTC SOP-00107	Standard Test Method for Determination of Carbon Residue (Micro Method) [ASTM D4530]
PTC SOP-00111	Total Nitrogen Sulphur in Hydrocarbons by boat-inlet Antek [ASTM D5453-S, ASTM D5762 – N <sub>2</sub> , ASTM D4629 – Trace Nitrogen]
PTC SOP-00115	Sediment in Oil by Membrane Filtration [ASTM D4807]
PTC SOP-00116	Sulfur in Petroleum Products by Energy-Dispersive X-Ray Fluorescence Spectroscopy [ASTM D4294]
PTC SOP-00120	Cetane Number of Diesel Fuel Oil [ASTM D613]
PTC SOP-00121	Heat of Combustion of Liquid Hydrocarbon Fuels by Bomb Calorimeter [ASTM D240]
PTC SOP-00122	Lubricity of Diesel Fuels by High Frequency Reciprocating Rig [ASTM D6079]
PTC SOP-00126	Acid Number by Color-Indicator Titration [ASTM D974]
PTC SOP-00175	Ash Content [ASTM D482]
PTC SOP-00204	High Temperature Stability of Distillate Fuels [ASTM D6468]
PTC SOP-00206	Metals Analysis in Organics by ICPOES [ASTM D5708]
PTC SOP-00209	Trace Hydrocarbon Analysis by GC
PTC SOP-00211	Light End Analysis in Stabilized Hydrocarbon Liquids
PTC SOP-00218	Boiling Range distribution by ASTM D7169
PTC SOP-00241	Ultimate Analysis of Coal and Coke (including Sulfur) [ASTM D3176 / ASTM D4239]
PTC SOP-00242	Proximate Analysis of Coal and Coke and Loss on Ignition Determination [ASTM D7582 / ASTM D7348]
PTC SOP-00250	Preparation of Coal Samples and Determination of Moisture in Coal [ASTM D2013 / ASTM D3302]
PTC SOP-00254	Heating Value of Coal and Coke by Bomb Calorimeter [ASTM D5865]
PTC SOP-00267	Viscosity by Stabinger [ASTM D7042]
PTC SOP-00275	Particle Size Distribution by Beckman Coulter Laser Analyzer
PTC SOP-00279	Total Mercury in Coal and Coal Combustion Residues [ASTM D6722]



**Standards Council of Canada**  
**Conseil canadien des normes**

**Notes:**

**ASTM:** American Society for Testing and Materials

**ISO/IEC 17025: 2017:** General Requirements for the Competence of Testing and Calibration Laboratories

**MSSMA:** McKeague, Manual on Soil Sampling and Methods of Analysis

**SSMA:** Carter, Soil Sampling and Methods of Analysis

---

Elias Rafoul, Vice President  
Accreditation Services

Date: 2019-07-23

Number of Scope Listings: 138  
SCC 1003-15/229  
Partner File #0  
Partner: SCC