

TESTING AND CALIBRATION LABORATORY ACCREDITATION PROGRAM (LAP)

Scope of Accreditation

La présente portée d'accréditation existe également en français et est publiée séparément.

| Legal Name of Accredited Laboratory: | Bureau Veritas Canada (2019) Inc. |
|--|---|
| Location Name or Operating as (if applicable): | Bureau Veritas (Edmonton) |
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To ensure compliance with the *Official Languages Act*, the Standards Council of Canada (SCC) translated proprietary content from English to French when it was not available in French. In case of discrepancies between the English and French versions, the original version prevails.

Edmonton-QA-CA@bureauveritas.com

| SCC File Number: | 15229 |
|----------------------------|--|
| Accreditation Standard(s): | ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories |
| Fields of Testing: | Biological Chemical/Physical |
| Program Specialty Area: | Environmental Testing (ET) |
| Initial Accreditation: | 1995-03-06 |
| Most Recent Accreditation: | 2025-05-10 |
| Accreditation Valid to: | 2027-03-06 |

SCC Group Accreditation:

Email:

This laboratory is a part of a Group Accreditation with the following facilities in accordance with SCC's policy on Group Accreditation documented in the Accreditation Services Accreditation Program Overview. 151039 - Bureau Veritas - Unit D, 675 Berry St., Winnipeg, MB, R3H 1A7, Accredited Laboratory No. 837





151043 - Bureau Veritas - 2021 - 41st Avenue, N.E., Calgary, AB, T2E 6P2, Accredited Laboratory No. 836

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

Bureau Veritas Edmonton Environmental 4326 76 Avenue NW Edmonton, AB T6B 2H8

ENVIRONMENTAL AND OCCUPATIONAL HEALTH AND SAFETY

Environmental:

Air

| PTC SOP – 00128 | VOCs by Thermal Desorption Diffusive Tube (EPA 325B) |
|-----------------|---|
| | Technique / Equipment: GCMS with Thermal Desorption |
| | Analytes: 1, 3-Butadiene, Benzene, Ethylbenzene, m,p-Xylenes, o- |
| | Xylene, Toluene |
| PTC SOP - 00148 | Monitoring NO2 in the Atmosphere by using All-Season Passive |
| | Samplers (AWMA 91st PAPER 98-TP44.03) |
| | Technique / Equipment: All-Season Passive Samplers |
| | Analytes: Nitrite |
| PTC SOP - 00149 | Monitoring SO2 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 SO2 in the Atmosphere" |
| | Proceedings, Clean Air '96: Second North American Conference and |
| | Exhibition, Nov. 19-22,1996 Orlando USA) |
| | Technique / Equipment: All-Season Passive Samplers |
| | Analytes: Sulfite |
| PTC SOP – 00150 | Monitoring H2S in the Atmosphere by using All-Season Passive |
| | Samplers (Hongmao Tang "A New All-Season Passive Sampling |
| | System for Monitoring H2S in Air" The Scientific World, (2002)2, 155- |
| | 168) |
| | Technique / Equipment: All-Season Passive Samplers |
| | Analytes: Hydrogen Sulfide |
| PTC SOP – 00157 | Monitoring NH3 in the Atm by using the Ogawa Passive Samplers |
| | (ASTM D6919) |
| | Technique / Equipment: Ogawa Passive Samplers |





| | Analytes: 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.) |
| | Technique / Equipment: Maxxam All-Season Passive Samplers |
| | Analytes: Ozone |
| EMS SOP-00110 | Anions by Ion Chromatography |
| | (Methods 42526, 44546, 47071 and 52121((Modified), Methods |
| | Manual for Chemical Analysis of Atmospheric Pollutants, 4thEdition, |
| | 1993, AECV93-M1) |
| | Technique / Equipment: Ion Chromatography – Conductivity Detector |
| | Analytes: Chloride, Fluoride, Nitrate, Sulfate |

Air Filter

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| 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 Methods) |
| | Technique / Equipment: Gravimetric |
| | Analytes: PM10, PM2.5 |
| PTC SOP – 00180 | Dustfall, Total and Fixed, Gravimetric (Modified from AMD, Appendix |
| | 4-6) |
| | Technique / Equipment: Gravimetric |
| | Analytes: Dustfall (Fixed), Dustfall (Total) |
| EMS SOP-00115 | Particulate Analysis for Stationary Sources - Lab |
| | (Method 5, Determination of Particulate Emissions from Stationary |
| | Sources, Alberta Stack Sampling Code, 1995, Publication Number: |
| | REF.89. (Modified)) |
| | Technique / Equipment: Gravimetric |
| | Analytes: Particulate |

Water (Inorganic)

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|-------------------------|---|
| AB SOP-00016 | Chemical Oxygen Demand (Total and Dissolved) (Modified From SM |
| | 5220 D) |
| | Technique / Equipment: Colorimetric |
| | Analytes: COD |
| AB SOP-00061 | Total Suspended Solids, Total Fixed Solids, and Total Volatile Solids |
| | (Modified from SM 2540 D and E) |
| | Technique / Equipment: Gravimetric |
| | |



| | Analytes: Fixed Solids, Total Suspended Solids, Volatile Suspended |
|---------------|--|
| | Solids |
| EENVSOP-00159 | pH Analysis in Bioassay Lab |
| | (Modified From SM 4500-H+ B) |
| | Technique / Equipment: pH Meter |
| | Analytes: pH |
| SM 4500-S2 F | Sulphide - Total, Titration Method [PTC SOP-00173] |
| | Technique/Equipment: Titration |
| | Analytes: Total Sulphide |

Water (Organic)

| i (Organic) | |
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| PTC SOP-00056 | Adsorbable Organic Halogens [AE128.1] |
| | Technique/Equipment: Coulometric Titration |
| | Analytes: Organic Halogens/Halides |
| AB SOP-00040 | Analysis of Extractable Hydrocarbons in Water and Soils by GCFID [Modified from Static Sheen Test (EPA Method 1617),] |
| | Technique / Equipment: Visual |
| | Analytes: Sheen |

Water (Toxicology)

| (Toxicology) | |
|---------------|--|
| EENVSOP-00154 | 48-Hr Acute Static Bioassay using Daphnia magna (EPS 1/Rm/11 and EPS 1/RM/14) |
| | Technique / Equipment: Acute Lethality (Survival) Assay |
| | Analytes: Daphnia magna LC50 (48 h), Daphnia magna Single |
| | Concentration (48h) |
| EENVSOP-00155 | Ceriodaphnia dubia Reproduction Inhibition and 7-Day Survival |
| | Chronic (EPS 1/RM/21) |
| | Technique / Equipment: Survival and Reproduction Inhibition Assay |
| | Analytes: Ceriodaphnia dubia (7d) |
| EENVSOP-00156 | Fathead Minnow Larval Growth and Survival 7 Day Chronic Test (EPS |
| | 1/RM/22) |
| | Technique / Equipment: Survival and Growth Inhibition Assay |
| | Analytes: Fathead Minnow (7d) |
| EENVSOP-00160 | 96-Hour Acute Static Bioassay using Rainbow Trout (EPS 1/RM/9 and EPS 1/RM/13) |
| | Technique / Equipment: Acute Lethality (Survival) Assay |
| | Analytes: Rainbow Trout LC50 (96 h), Rainbow Trout Single |
| | Concentration (96h) |
| EENVSOP-00190 | 96-Hour Acute Static Bioassay using Rainbow Trout with pH |
| | Stabilization (EPS 1/RM/50 and EPS 1/RM/13 (|
| | |



| Technique / Equipment: Acute Lethality (Survival) Assay with pH |
|---|
| Stabilization |
| Analytes: Rainbow Trout LC50 (96 h), Rainbow Trout Single |
| Concentration (96h) |

NON-METALLIC MINERALS AND PRODUCTS

Petroleum Refinery Products (including asphalt materials, petrochemicals, fuels and lubricants):

Fuels and Lubricants

| Water %. Crackel test. | Determination of Water in Lubricating Oil by the Visual Crackle Test. |
|------------------------|---|
| Water %. Cracker test. | 5 , |
| | Fitch, J. C., The Lubrication Field Test and Inspection Guide, Noria |
| | Publishing. (PTC SOP-00010)] |
| | Technique / Equipment: Visual Crackle Test |
| | Analytes: Water |
| ASTM D5185 | Additives, Wear Metals and Contaminants in Lubricating Oils by |
| | ICPOES |
| | (PTC SOP-00011) |
| | Technique / Equipment: ICPOES |
| | Analytes: Aluminum, Antimony, Barium, Beryllium, Boron, Calcium, |
| | Chromium, Copper, Iron, Lead, Lithium, Magnesium, Molybdenum, |
| | Nickel, Phosphorous, Potassium, Silicon, Silver, Sodium, Tin, |
| | Titanium, Vanadium, Zinc |
| ASTM D7279 | Kinematic Viscosity of Lubricating Oils |
| | (PTC SOP-00012) |
| | Technique / Equipment: Viscosity |
| ASTM D7418 | Oxidation, Nitration, Sulphation and Soot of Engine oils by FTIR |
| | (PTC SOP-00013) |
| | Technique / Equipment: FTIR |
| ASTM D7593 | Determination of Fuel Dilution for In-Service Engine Oils by GC |
| | (PTC SOP-00014) |
| | Technique / Equipment: GCFID |
| | Analytes: Hydrocarbon Oil (Fuel) |
| ASTM D4739 (Modified) | Base Number of Lubricating Oils by Potentiometric Titration |
| | (PTC SOP-00017) |
| | Technique / Equipment: Potentiometric Titration |
| ASTM D6304 | Water Content in Lubricating Oils by Coulometric KF Titration |
| | (PTC SOP-00018) |
| | Technique / Equipment: Coulometric KF Titration |
| | Analytes: Water Content |





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| ISO 11500:2008 (Modified) | ISO Particle Count of Lubricating Oils Using an Optical Particle |
| | Counter |
| | (PTC SOP-00020) |
| | Technique / Equipment: Optical Particle Counter |
| GPA 2286 (Modified) and | Analysis of Hydrocarbon Condensates by Heated Flash |
| GPA 2261 (Modified) | (PTC SOP-00029(|
| | Technique / Equipment: Heated Flash |
| | Analytes: Hydrocarbons |
| GPA 2177 (Modified) | Analysis of C4- Components in Condensate |
| | (PTC SOP-00030) |
| | Technique / Equipment: GCTCD |
| | Analytes: N ₂ , C ₁ , CO ₂ , C ₂ , C ₃ , iC ₄ , nC ₄ |
| ASTM D-5504 (Modified) | Calibration and Analysis of Trace Sulfur Compounds in Petroleum |
| , | Products |
| | (PTC SOP-00031) |
| | Technique / Equipment: GCSCD |
| | Analytes: Trace Sulfur Compounds |
| ASTM D5623 (Modified) | Calibration and Analysis of Trace Sulfur Compounds in Petroleum |
| (| Products |
| | (PTC SOP-00033) |
| | Technique / Equipment: GCSCD |
| | Analytes: Trace Sulfur Compounds |
| ASTM D2887/CAN/CGSB | Hydrocarbon C30 Analysis by Gas Chromatography |
| 3.0, No.14.3 (Modified) | (PTC SOP-00036) |
| (| Technique / Equipment: GCFID |
| | Analytes: Hydrocarbon C30 |
| ASTM D4052/ ASTM D5002 | Density of Light Hydrocarbons (condensate) by Digital Densitometer |
| ASTIVI D4032/ ASTIVI D3002 | (PTC SOP-00037) |
| | Technique / Equipment: Digital Densitometer |
| PTC SOP-00038 | |
| PTC SOP-00036 | Trace Methanol by Gas Chromatography |
| | Technique / Equipment: GCFID |
| AOTA DZOO | Analytes: Trace Methanol |
| ASTM D7900 | Boiling Range Distribution by ASTM D7900 |
| | [PTC SOP-00039] |
| | Technique / Equipment: GCFID |
| | Analytes: Hydrocarbons |
| GPA 2186 (Modified) | Analysis of LPG/NGL to C15+ (Extended) |
| | (PTC SOP-00044) |
| | Technique / Equipment: GCTCD |
| | Analytes: Hydrocarbons |
| CAN/CGSB 3.0 No. 14.3 and | Ponau Analysis |
| ASTM D6729 (Modified) | (PTC SOP-00045) |





| | To shairwa / Favinas onto CCFID |
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| | Technique / Equipment: GCFID |
| | Analytes: Paraffins, Olefins, Naphthenes, Aromatics, and Unknowns |
| UOP 523 (Modified) | Component Analysis of Glycols, Amines, and Sulfinols by GC |
| | (PTC SOP-00049) |
| | Technique / Equipment: GCTCD |
| | Analytes: Glycols, Amines, and Sulfinols |
| ASTM D4929 | Total Organic Halogens and Organic Chlorides |
| | (PTC SOP-00050) |
| | Technique / Equipment: Microcoulometric-Titration Detector |
| | Analytes: Organic Halides containing Chlorides, Bromides, and |
| | Iodides |
| ASTM D2887 | Boiling Range Distribution of Petroleum Fractions by Gas |
| | Chromatography |
| | (PTC SOP-00051) |
| | Technique / Equipment: GCFID |
| ASTM D4052/5002 | High Pressure Density |
| | (PTC SOP-00052) |
| | Technique / Equipment: Density Meter |
| Molecular weight | Molecular Weight by Freezing Point Depression. Cryette A Petroleum |
| | Cryoscope. |
| | (PTC SOP-00058) |
| | Technique / Equipment: Cyroscope |
| GPA 2286 (Modified) | Analysis of Hydrocarbon Gas |
| | (PTC SOP-00062) |
| | Technique / Equipment: GCFID/TCD |
| | Analytes: Hydrocarbons |
| ASTM D445 | Measurement of Viscosity by Cannon - Fenske Opaque Viscometer |
| | (PTC SOP-00067) |
| | Technique / Equipment: Fenske Opaque Viscometer |
| ASTM D97; ASTM D5853 | Pour Point Analysis of Petroleum Products |
| | (PTC SOP-00068) |
| | Technique / Equipment: Pour Point Determination |
| ASTM D86 | Distillation of Petroleum Products at Atmospheric Pressure |
| | (PTC SOP-00071) |
| | Technique / Equipment: Distillation |
| ASTM D323A | Reid Vapor Pressure of Petroleum Products |
| | (PTC SOP-00072) |
| | Technique / Equipment: Reid Vapor Pressure Apparatus |
| ASTM D5972 | Freezing Point Determination |
| | (PTC SOP-00079) |
| | Technique / Equipment: Automatic Phase Transition Method |
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| ASTM D93 | Flash-Point by Pensky-Martens Closed Cup Tester |
| | (PTC SOP-00082) |
| | Technique / Equipment: Pensky-Martens Closed Cup Tester |
| ASTM D130; ASTM D1838 | Detection of Copper Corrosion from Petroleum Products by the |
| | Copper Strip |
| | (PTC SOP-00083) |
| | Technique / Equipment: Copper Strip |
| ASTM D4007; ASTM D1796; | Water and Sediment in Crude by the Centrifuge Method (Laboratory |
| ASTM D2709 | Procedure) |
| | (PTC SOP-00084) |
| | Technique / Equipment: Centrifugation |
| ASTM D611 | Aniline Point of Petroleum Products |
| 7.61.11.5611 | (PTC SOP-00089) |
| | Technique / Equipment: Aniline Point, (does not include Mixed Aniline |
| | Point) |
| ASTM D2624 | Electrical Conductivity of Aviation and Distillate Fuels |
| A31W D2024 | (PTC SOP-00091) |
| | , |
| AOTM D 4470 | Technique / Equipment: Digital conductivity meters |
| ASTM D4176 | Free Water and Particulate Contamination in Distillate Fuels (Visual |
| | Inspection Procedures) |
| | (PTC SOP-00092) |
| | Technique / Equipment: Visual Appearance |
| ASTM D4539 | Filterability of Diesel Fuels by Low Temperature Flow Test (LTFT) |
| | (PTC SOP-00093) |
| | Technique / Equipment: LTFT |
| ASTM D5452 | Particulate Contamination, Filter Memb. Color ratings in Aviation by |
| | Filt |
| | (PTC SOP-00095) |
| | Technique / Equipment: Filt |
| OSRD Method 1.0 | Determination of Bitumen, Water, Solids by Dean Stark Method. ARC. |
| | Oil Sands Analytical Method 1.00 |
| | (PTC SOP-00097) |
| | Technique / Equipment: Modified Dean Stark Extractor |
| | |
| ASTM D4052 | Density and Relative Density of Liquids by Digital Density Meter |
| | (PTC SOP-00099) |
| | Technique / Equipment: Digital Density Meter |
| ASTM D5002 | Density and Relative Density of Crude Oils by Digital Density Analyzer |
| 7.6.1 20002 | (PTC SOP-00100) |
| | Technique / Equipment: Digital Density Analyzer |





| ASTM D664 | Total Acid Number of Detroloum Products by Detentiometric Titration |
|---------------------------|---|
| ASTWID664 | Total Acid Number of Petroleum Products by Potentiometric Titration |
| | (PTC SOP-00103) |
| | Technique / Equipment: Potentiometric Titration |
| ASTM D4928; ASTM D6304 | Water in Petroleum Products by Coulometric Karl Fischer Titration |
| | (PTC SOP-00105) |
| | Technique / Equipment: KF Titration |
| ASTM D4530 | Standard Test Method for Determination of Carbon Residue (Micro |
| | Method) |
| | (PTC SOP-00107) |
| | Technique / Equipment: Micro Carbon Residue Tester |
| | Analyte: Micro Carbon Residue |
| ASTM D1319 | Hydrocarbon Types in Liquid Petroleum Products by Fluorescence |
| | Indicator |
| | (PTC SOP-00109) |
| | Technique / Equipment: Fluorescence Indicator |
| ACTM D4000 | Analyte: Saturates, Olefins, and Aromatics |
| ASTM D1322 | Smoke Point of Kerosine and Aviation Turbine Fuel (PTC SOP-00110) |
| | Technique / Equipment: Smoke Point |
| ASTM D5453-S(Sulfur); | Total Nitrogen Sulphur in Hydrocarbons |
| ASTM D5762 – N(Nitrogen); | (PTC SOP-00111) |
| ASTM D4629 – N(Nitrogen) | Technique / Equipment: Elemental Analyzers |
| 7.6 m 2 1020 m m ogeny | Analyte: Sulfur and Nitrogen |
| ASTM D4807 | Sediment in Oil by Membrane Filtration |
| ASTW D4007 | (PTC SOP-00115) |
| | Technique / Equipment: Membrane Filtration |
| ASTM D4294 | |
| ASTWI D4294 | Sulfur in Petroleum Products by Energy-Dispersive X-Ray |
| | Fluorescence Spectroscopy (PTC SOP-00116) |
| | Technique / Equipment: Energy-Dispersive X-Ray Fluorescence |
| | Spectroscopy |
| | Analyte: Sulfur |
| ASTM D3227 | Mercaptan Sulphur of Petroleum Products |
| | (PTC SOP-00117) Technique / Equipment: Potentiometric Method |
| | Analyte: Mercaptan Sulphur |
| ASTM D613 | Cetane Number of Diesel Fuel Oil |
| 7.61.11.2010 | (PTC SOP-00120) |
| | Technique / Equipment: Combustion |
| ASTM D240; ASTM D4809; | Heat of Combustion of Liquid Hydrocarbon Fuels by Bomb |
| ASTM D3338; D3338M | Calorimeter |
| ASTIVI D3330, D3330IVI | (PTC SOP-00121) |
| | Technique / Equipment: Bomb Calorimeter |
| | Teomingue / Equipment. Bomb Calonneter |
| ASTM D6079 | Lubricity of Diesel Fuels by High Frequency Reciprocating Rig |
| | (PTC SOP-00122) |





| Technique / Equipment: High Frequency Reciprocating Rig (HFRR) |
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| Acid Number by Color-Indicator Titration |
| (PTC SOP-00126) |
| Technique / Equipment: Color-Indicator Titration |
| Ash Content |
| (PTC SOP-00175) |
| Technique / Equipment: Muffle Furnace |
| High Temperature Stability of Distillate Fuels |
| (PTC SOP-00204) |
| Technique / Equipment: High Temperature Heating Bath |
| Metals Analysis in Organics by ICPOES |
| (PTC SOP-00206): |
| |
| Technique / Equipment: ICPOES |
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| Analytes: |
| Silver (Ag), Aluminum (Al), Arsenic (As), Boron (B), Barium (Ba), |
| Beryllium (Be), Calcium (Ca), Cadmium (Cd), Cobalt (Co), Chromium |
| (Cr), Copper (Cu), Iron (Fe), Lithium (Li), Potassium (K), Magnesium |
| (Mg), Manganese (Mn), Molybdenum (Mo), Sodium (Na), Nickel (Ni), |
| Phosphorus (P), Lead (Pb), Selenium (Se), Silicon (Si), Tin (Sn), |
| Strontium (Sr), Titanium (Ti), Vanadium (V), Zinc (Zn) |
| Trace Hydrocarbon Analysis by GC |
| (PTC SOP-00209) |
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| Technique / Equipment: GCFID |
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| | Analytes: |
|-------------------------|---|
| | Methane, Ethane, Propane, Isobutane, n-Butane, Isopentane, n- |
| | pentane, methylcyclopentane, benzene, cyclohexane, |
| | methylcyclohexane, toluene, ethylbenzene, meta and para-xylene, |
| | ortho-xylene, trimethylbenzene, hexanes (C6), heptanes (C7), |
| | octanes (C8), nonanes (C9), decanes (C10), undecanes (C11), |
| | dodecanes (C12), tridecanes (C13), tetradecanes (C14), |
| | pentadecanes (C15), hexadecanes (C16), heptadecanes (C17), |
| | octadecanes (C18), nonadecanes (C19), eicosanes (C20), |
| | heneicosanes (C21), docosanes (C22), triacosanes (C23), |
| | tetracosanes (C24), pentacosanes (C25), hexacosanes (C26), |
| | heptacosanes (C27), octacosanes (C28), nonacosanes (C29), |
| | triacontanes plus (C30+) |
| ASTM D2887 (Modified) | Light End Analysis in Stabilized Hydrocarbon Liquids |
| | (PTC SOP-00211) |
| | Technique / Equipment: GCFID |
| | Analytes: Hydrocarbon Components |
| ASTM D7169 | Boiling Range distribution by ASTM D7169 |
| | (PTC SOP-00218) |
| | Technique / Equipment: GCFID |
| ASTM D5373; ASTM D3176; | Carbon, Hydrogen, Nitrogen and Sulphur Analysis (PTC SOP-00241) |
| ASTM D4239 | Technique / Equipment: TCD |
| | Analytes: Carbon, Hydrogen, Nitrogen and Sulphur |
| ASTM D7582 | Proximate Analysis of Coal and Coke |
| | (PTC SOP-00242) |
| | Technique / Equipment: Thermo-Gravimetric Analyzer |
| ASTM D2013/D2013M and | Preparation of Coal Samples and Determination of Moisture in Coal |
| ASTM D3302/D3302M | (PTC SOP-00250) |
| ASTM D5865/D5865M | Heating Value of Coal and Coke by Bomb Calorimeter |
| | (PTC SOP-00254) |
| | Technique / Equipment: Bomb Calorimeter |
| ASTM D7042 | Viscosity by Stabinger |
| | (PTC SOP-00267) |
| | Technique / Equipment: Viscosity Meter |
| Beckman Coulter PSD | Particle Size Distribution by Beckman Coulter Laser Analyzer |
| | (PTC SOP-00275) |
| | Technique / Equipment: Beckman Coulter Laser Analyzer |
| ASTM D6722 | Total Mercury in Coal and Coal Combustion Residues |
| | (PTC SOP-00279) |
| | Technique / Equipment: Mercury Analyzer |
| ASTM D7978 | Determination of Microbial Content in Jet Fuel |
| | (PTC SOP-00287) |
| | Technique / Equipment: Microbial detection assay |





| | Analytes: viable microorganisms |
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| ASTM D156 | Saybolt Color of Petroleum Products |
| | (PTC SOP-00289) |
| | Technique / Equipment: Saybolt chromometer |
| ASTM D56 | Flash Point by Tag Closed Cup |
| | (PTC SOP-00291) |
| | Technique / Equipment: TAG Flash Point Tester |
| ASTM D3241 | Thermal Oxidation Stability |
| | (PTC SOP-00292) |
| | Technique / Equipment: Thermal Oxidation Stability Tester |
| IP 540 | Existing GUM |
| | (PTC SOP-00293) |
| | Technique / Equipment: Gum Bath |
| ASTM D7224 | Water Separation Characteristics |
| | (PTC SOP-00294) |
| | Technique / Equipment: Micro-Separometer |
| ASTM D1840 | Naphthalene Hydrocarbons in Aviation Turbine Fuels by UV |
| | Spectrometry |
| | (PTC SOP-00297) |
| | Technique / Equipment: Spectrophotometer |
| | Analytes: Naphthalene Hydrocarbons |
| ASTM D7797 | Determination of the Fatty Acid Methyl Esters Content (FAME) |
| | (PTC SOP-00298) |
| | Technique / Equipment: FA-FTIR |
| | Analytes: FAME |
| ASTM D3242 | Acidity in Aviation fuel |
| | (PTC SOP-00299) |
| | Technique / Equipment: titration |

Number of Scope Listings: 96

Notes:

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

Laboratories

ASTM: American Society for Testing and Materials

NIOASH: The National Institute for Occupational Safety and Health

CCME: Canadian Council of Ministers of the Environment

EPA: Environment Protection Agency **AEC:** Alberta Environmental Centre **GPA:** Gas Producers Association





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Elias Rafoul Vice-President, Accreditation Services Publication on: 2025-05-13