

Accelerated Fuel Oil Stability Test, 150 °C, 180 min.aging	Octel F21-61
Accelerated Fuel Oil Stability Test, 150 °C, 90 min. aging	Octel F21-61
Accelerated Stability (16 hrs.), mg/100 mL	ASTM D2274
Accelerated Stability (40 hrs.), mg/100 mL	ASTM D2274
Acid Number and Naphthenic Acids by Colorimetric Titration	UOP-587 & ASTM D86
Acid Number by Color-Indicator Titration, mg KOH/g	ASTM D974
Acid Number, mg KOH/g	ASTM D664
Acidity in Aviation Turbine Fuels	ASTM D3242
Acidity of Hydrocarbon Liquids and Their Distillation Residues	ASTM D1093
Acidity, as acetic acid, Mass %	ASTM D1613
Alcohol Content, Phase Separation, %	GL-56
Alcohols	GL-1
Aldehydes	GL-3.1
Alkalinity, Sulfide and Mercaptide Analyses of Used Refinery Caustic Solutions	UOP Method 209-00
Amines	GL-2
Ampulization and Storage of Gasoline and Related Hydrocarbon Materials, 200 Lot Set	ASTM D6596
Analysis of Natural Gas by Gas Chromatography, mole %	ASTM D1945
Aniline Point, °C	ASTM D611 (Modified)
Antifreeze Glycol Type	GL-3
Antiknock Index	GL-34
Appearance	GL-4
Appearance	ASTM D4176, Procedure 1
Ash, Mass %	ASTM D482
Ash, Mass %	ASTM D1119
Ash, Sulfated, Mass %	ASTM D874
Asphaltene Flocculation using NIR	GL-75
Asphaltenes, Heptane Insolubles, Mass %	GL-60
Asphaltenes, Heptane Insolubles, Mass ppm	GL-60
Asphaltenes, Mass %	ASTM D6560
Asphaltenes, Mass %	IP 143
Asphaltenes, Pentane Insolubles, Mass %	GL-59

Prices by Request

A	
Autoignition Temperature of Liquid Chemicals	ASTM E659
B	
Base Number of Petroleum Products by Potentiometric Perchloric Acid Titration	ASTM D2896
Base Number, mg KOH/g	ASTM D4739
Benzene Emissions Number, Summer	Regulation SOR/97-493
Benzene Emissions Number, Winter	Regulation SOR/97-493
Boiling Point, °C	ASTM D1120
Boiling Range Distribution by Gas Chromatography, High Temperature, Petroleum Distillates, °C	ASTM D6352
Boiling Range Distribution by Gas Chromatography, Crude Oil, °C	ASTM D5307
Boiling Range Distribution by Gas Chromatography, Petroleum Fractions, °C	ASTM D2887
Boiling Range Distribution by Gas Chromatography, Gasoline, °C	ASTM D3710
Boiling Range Distribution by Gas Chromatography, C5 to C100	ASTM D7169
Bottom Layer, Volume %	GL-31
Bromine Index	ASTM D2710
Bromine Number, g/100g	ASTM D1159
Burning Quality of Kerosene	ASTM D187
C	
Carbohydrates	GL-5
Carbon Residue, 10% Bottoms, Mass %	ASTM D524 & D86
Carbon Residue, MCRT, Mass %	ASTM D4530
Carbon Residue, RCR, Mass %	ASTM D524
Carbon, Hydrogen, and Nitrogen	ASTM D5373
Carbon, Hydrogen, Oxygen and Sulfur analysis of Petroleum Products by combustion	
Carbonizable Substances	3-GPO-130.1
Carbonyls mg/kg (as acetaldehyde)	ASTM D4423
Cetane Index	ASTM D976
Cetane Index	CAN/CGSB-3.0 No.20.9

Prices by Request

C

Cetane Index	ASTM D4737
Cetane Number (<35 or >48 cetane rating)	ASTM D613
Cetane Number	ASTM D613
Chloride Ion in Water, Procedure C, mg/L	ASTM D512, Procedure C
Cloud Point of Translucent Petroleum Crude by NIR, °C	GL-66
Cloud Point, Automatic, °C	ASTM D5773
Cloud Point, °C	ASTM D2500
Cold Filter Plugging Point, °C	ASTM D6371
Color, ASTM	ASTM D1500
Color, Saybolt	ASTM D156
Component Type Analysis of Bitumens and Crude Oils	GL-62
Copper in Light Petroleum, Spectrophotometric Method	IP225
Copper Corrosion	ASTM D130
Corrosion Test for Engine Coolants in Glassware, Loss, mg/Specimen (Single Run)	ASTM D1384
Corrosion Test for Engine Coolants in Glassware, Loss, mg/Specimen (Triplicate)	ASTM D1384
Corrosion, Steel in Water	NACE TM0172
Corrosiveness to Silver of Gasoline and Distillate Fuels using Silver Wool, Rapid Ultrasonic Method	PCM 1005-03-IV Rev. 100
Carbon, Hydrogen, Solid Sample	ASTM D5373
Carbon, Hydrogen, Nitrogen, Liquid Sample	ASTM D5291
Cetane Number, Derived and Ignition Delay by Combustion in a Constant Volume Chamber	ASTM D6890
Chlorides, Inorganic, mg/L	ARC-VEG
Contamination in Middle Distillates, mg/kg	EN 12662

D

Dangerous Goods 4L Design Package	CAN/ARC/2-198
Dean Stark - Bulk Oilsand Ore (per kg)	ARC-DS
Dean Stark - Oil Sands Ore (100 grams or less)	ARC-DS
Dean Stark - Oil Sands Ore (1 kg or less)	ARC-DS
Dean Stark - Tailings (Wet, contains middlings)	ARC-DS
Dean Stark - Tailings (Dry, middlings removed)	ARC-DS
Dean Stark - Middlings	ARC-DS

Prices by Request

D	
Dean Stark - Toluene Wash	ARC-DS
Dean Stark - Secondary Froth	ARC-DS
Dean Stark - Primary Froth	ARC-DS
Density, kg/m ³ , @ 15 °C	EN ISO 12185
Density, Crude Oil, kg/m ³	ASTM D5002
Density of Semi-Solid Bituminous Materials (Pycnometer Method), kg/m ³ , @ 15.0 °C	ASTM D70
Density, kg/m ³ , @ 15 °C	ASTM D1217
Density, kg/m ³ , @ 15 °C	ASTM D4052
Density, kg/m ³ , @ 15 °C	ASTM D1298
Dye, Detection of Unisol Liquid Red BK-50	GL-71
Determination of Total and Potential Inorganic Sulfate and Total Inorganic Chloride in Fuel Ethanol by Ion Chromatography	ASTM D7328
Diene Value	UOP 326-82
Diluent in Diesel Fuel by Gas Chromatography	ASTM D3524
Diluent in Gasoline by Gas Chromatography	ASTM D3525
Diluent of Oil, Volume %	ASTM D322
Distillation of Crude Petroleum (15 Plates)	ASTM D2892
Distillation of Heavy Hydrocarbon Mixtures	ASTM D5236
Distillation of Petroleum Products at Reduced Pressure, Atmospheric Equivalent Temperature (AET), % Recovered, °C	ASTM D1160
Distillation Range, % Recovered, °C (corrected)	ASTM D1078
Distillation, % Evaporated, °C (corrected)	ASTM D86
Distillation, % Recovered, °C (corrected)	ASTM D86
Doctor Test	ASTM D4952
Driveability Index	CAN/CGSB-3.5
Density, Micro of Bitumen Fractions by Precision Balance, g/mL	GL-65
Distillation of Liquid Hydrocarbons and Bitumen, Spinning Band (40 Plates), 100 mL Maximum Charge	GL-64
Distillation of Liquid Hydrocarbons and Bitumen, Spinning Band (40 Plates), 100 - 500 mL Charge	GL-64
E	
Electrical Conductivity, pS/m	ASTM D2624

Prices by Request

E	
Elemental Sulfur by Gas Chromatography/Mass Spectroscopy	GL-ARC-EMSU
Estimation of Net Heat of Combustion of Aviation Fuels, MJ/kg	ASTM D3338
Ethylene Glycol, mass ppm	ASTM D4291M
F	
Fire Point, °C	ASTM D92
Flash Point, °C	ASTM D3828
Flash Point, °C	ASTM D56
Flash Point, °C	ASTM D92
Flash Point, °C	ASTM D93, Procedure A
Foaming Characteristics, mL	ASTM D892
Foaming Tendencies (Antifreeze)	ASTM D1881
Freezing Point, Automatic, °C	ASTM D5972
Freezing Point, °C	ASTM D2386
Freezing Point, °C	ASTM D1177
Fuel Filter Blocking Potential of Biodiesel (B100) Blend Stock by Cold Soak Laboratory Filtration	ASTM DXXXX
Furfural	GL-42
Furnace Fuel Filterability Test, °C	IOL Procedure
Fat and Oil Derivatives-Fatty Acid Methyl Esters(FAME)-Determination of Iodine Value, g/100g	EN 14111
G	
Gas Chromatography (Calibration and Analysis)	GL-21
Gas Chromatography (Routine Fingerprinting)	GL-21
Gas Chromatography, Extraction	GL-36
Gas Chromatography/Mass Spectroscopy	GL-21A
Gas Chromatography/Mass Spectroscopy, DIPA	GL-ARC-MS
Gas Chromatography/Mass Spectroscopy	ASTM D2786/D3239
Glycerine, Free and Total in B-100 Biodiesel Methyl Ester by Gas Chromatography (mass%)	EN 14105
Gum Content, Existent, mg/100 mL	ASTM D381
Gum Content, Solvent Washed, mg/100 mL	ASTM D381
Glycerine, Free and Total in B-100 Biodiesel Methyl Ester by Gas Chromatography (mass%)	ASTM D6584

Prices by Request

H	
Hazen Color Number (APHA-Method)	DIN-ISO 6271
Heat of Combustion, Bomb Calorimeter (Includes Gross), Net, MJ/kg	ASTM D4809
Heat of Combustion, Net, MJ/kg	ASTM D4529
Heat of Combustion, Bomb Calorimeter, Gross, MJ/kg	ASTM D4809
High Temperature Stability of Distillate Fuels, 150 °C, 180 min.aging	ASTM D6468
Hydrocarbon Types	ASTM D1319
Hydrocarbon Types, Volume %	UOP 501-83
Hydrocarbons [in methanol]	3-GP-531
Hydrogen Content, Mass %	ASTM D3701
Hydrogen Content, mass%	ASTM D4808
Hydrogen Sulfide	GL-9
Hydrogen Sulfide in the Vapor Phase Above Residual Fuel Oils	ASTM D5705
Hydrometer Inspection and Verification (Calibration)	ASTM E126
I	
ICP, Inorganic or Organic, Each Additional Metal	GL-ARC-ICP
ICP, Inorganic or Organic, Per Sample after Initial Set Up	GL-ARC-ICP
ICP, Inorganic or Organic, Initial Set Up (One Metal Included)	GL-ARC-ICP
Infrared Scan - Biodiesel (Fatty Acid Methyl Esters) Content	ASTM D7371
Introspect, Component Type Analysis of Bitumen	GL-61
Icing Inhibitor, Volume %	3GPO-132.1
Icing Inhibitors FSII (Ether Type), Volume %	ASTM D5006
ICP/Mass Spectroscopy, µg/g	ARC-VEG-MS
Industrial Liquid Lubricants - ISO Viscosity Classification	ISO 3448
Infrared Scan (Rubber, Elastomer)	GL-ARC-INFR
Infrared Scan (Routine)	GL-ARC-INFR
Insolubles in Used Lubricating Oils, Mass %	ASTM D893
Iodine Value by Wijs Solution	DIN 53241-1 Modified
Ion Chromatography, Anion Analysis	GL-72
Ion Chromatography, Cation Analysis	GL-76
Ion Chromatography, Monosaccharide Sugar Analysis	GL-67

Prices by Request

I

Ion Chromatography, Monosaccharide Sugar Analysis including hydrolysis GL-67

Ion Chromatography, Organic Acid Analysis GL72

L

Lead, g/L @ 15°C ASTM D3341

Lead, mg/L ASTM D3237

Lead, mg/L CAN/CGSB-3.0 No. 19.5

Loss On Drying by Thermogravimetry ASTM E1868

Low Temperature Flow Test (LTFT), Minimum Pass Temperature °C CAN/CGSB-3.0 No.140.1

Low Temperature Flow Test (LTFT), Minimum Pass Temperature °C ASTM D4539

Low Temperature Flow Test (LTFT), Pass/Fail, °C ASTM D4539

Low Temperature Flow Test, Pass/Fail, °C CAN/CGSB-3.0 No.140.1

Lubricity by Ball-On-Three Disk BOTD

Lubricity by Ball-On-Cylinder Evaluator ASTM D5001

Lubricity by Ball-On-Cylinder Evaluator ASTM D6078

Lubricity by Ball-On-Cylinder Evaluator, Single Load Test ASTM D6078

Lubricity by High Frequency Reciprocating Rig (HFRR), Wear Scar Diameter at 25 °C ASTM D6079

Lubricity by High Frequency Reciprocating Rig (HFRR), Wear Scar Diameter at 60 °C ASTM D6079

Loss On Drying by Thermogravimetry Noack Method (Setup and One Sample) ASTM D6375

Loss On Drying by Thermogravimetry Noack Method (Additional Sample after Setup) ASTM D6375

M

Manganese, mg/L ASTM D3831

Melting & Crystallization Temperatures by Thermal Analysis ASTM E794

Mercaptan Sulfur, Mass % ASTM D3227

Methanol Content in Biodiesel % (m/m) EN 14110

Microbiological Examination ARC-NuRx

Microscopic Study GL-11

Molecular Weight of Organics by Freezing Point Depression NCUT-ARC

Prices by Request

M

Molecular Weight of Organics by Vapor Pressure Osmometry ASTM D2503

N

Nitrogen, Basic, mg/kg GL-ARC-BN

Naphthalenes ASTM D1840

Neutron Activation Analysis (NAA) ARC-UA

Nitrogen Content, Mass % ASTM D5291

Non Volatile Matter, Mass/Volume % 3GPO, 44.3

Nonvolatile Matter in Volatile Solvents for Use in Paint,
Varnish, Lacquer, and Related Products ASTM D1353

Nitrogen, mg/kg ASTM D4629

O

Oxygen, Mass % CAN/CGSB-3.0 No. 14.3

Octane Number, Motor ASTM D2700

Octane Number, Motor, (<80 or >97 octane rating) ASTM D2700

Octane Number, Research, (<80 or >97 octane rating) ASTM D2699

Octane Number, Research ASTM D2699

Oil, Water and Solids determination by column solvent
extraction GL-78

Oxidation Stability ASTM D525

Oxidation Stability of Straight Mineral Oil IP 306 (modified)

Oxidation Stability, Fatty Acid Methyl Esters (FAME), hours EN 14112

Oxidation Stability, mg/100 mL ASTM D873

P

PIONA, Detailed Hydrocarbon Type Analysis by
Multidimensional Gas Chromatography NCUT-ARC

Peroxide in Butadiene ASTM D5799

PONA Hydrocarbon Components by Gas Chromatography CAN/CGSB-3.0 No.14.3

Particle Size Distribution ISO 4406

Particulate Contamination, Client Supplies Monitor, mg/L ASTM D5452

Particulate Contamination, mg/L ASTM D5452

Particulate Contamination, mg/L GL-6

Penetration of Bituminous Materials, tenths of a millimeter ASTM D5

Prices by Request

P	
Peroxides, mg/kg	ASTM D2340
pH	ASTM D664
pH on water or water extraction	GL-12
Phosphate Content of Inhibited Glycols	3GPO-94.1
Phosphorus, mg/L	ASTM D3231
PONA Standards, Reference Gasoline	CGSB 14.3
Pour Point, °C	ASTM D97
Pour Point, °C	ASTM D5949, ASTM D97 E
Precipitation Number of Lubricating Oils, mL	ASTM D91
Proximate Analysis, Coal and Coke: Moisture, Ash, Volatile Matter	ASTM D5142
Q	
Quinoline-Insoluble Content of Tar and Pitch, Mass %	ASTM D2318 (Modified)
R	
Reserve Alkalinity, mL HCl/10 mL	ASTM D1121
Rust Preventing Characteristics of Inhibited Mineral Oil in the Presence of Water	ASTM D665
S	
SAPA, Saturates, Aromatics, Polars, and Asphaltenes	GL-62
Sediment, Total in Residual Fuels	ASTM D4870
Solids, Filterable in Water, Mass %	GL-ARC-SOLIDS
SARA, Oils and Other Petroleum Derived Oils by the Clay Gel Absorption Chromatographic Method	ASTM D2007 & D3279
Salt in Crude Oils, Mass % NaCl	ASTM D6470
Sampling Device, 1 Litre	ARC-GL-SD
Sampling Device, 800 mL, 2" Diameter	ARC-GL-SD
Saponification Number, mg KOH/g	ASTM D94
Sediment by Extraction, Mass %	ASTM D473
Shear Viscosity of Coal-Tar and Petroleum Pitches, mPa·s (cPs)	ASTM D5018
Silver Corrosion, 4 hrs.	IP 227
Smoke Point, mm	ASTM D1322
Smoke Volatility Index	CAN 2-3.22-M80

Prices by Request

S

Starch	GL-24
Sugar	GL-17
Sulfates	GL-16
Sulfur by Energy-Dispersive X-ray Fluorescence Spectroscopy, Mass%	ASTM D4294
Sulfur, Mass%	ASTM D4239
Sulfur by Monochromatic Wavelength Dispersive X-ray Fluorescence Spectrometry, mg/kg	ASTM D7039
Sulfur in Petroleum Products (High-Temperature Method), Mass %	ASTM D1552
Sulfur Speciation by Gas Chromatography/Atomic Emission Detection	ARC-NCUT
Sulfur Speciation by Gas Chromatography/Sulfur Chemiluminescence Detector	ARC-GL-SSH
Sulfur, Mass %	CAN/CGSB-3.0 No. 16.1
Sulfur, Mass %	ASTM D1266 (Modified)
Sulfur, Mass%	CAN/CGSB-3.0 No. 16.0
Supercritical Fluid Chromatography	CAN/CGSB 3.0 No. 15.0
Supercritical Fluid Chromatography	ASTM D5186
Sulfur by Ultraviolet Fluorescence, ppm ($\mu\text{g/g}$), Customer Supplies Density	ASTM D5453
Sulfur by Ultraviolet Fluorescence, ppm (mg/kg)	ASTM D5453
Sulfur by Ultraviolet Fluorescence, ppm (mg/kg)	ASTM D6667

T

Test Method for Determination of Individual Components in Spark Ignition Engine Fuels by 100 Meter Capillary High Resolution Gas Chromatography	ASTM D6729
Thermal Oxidation Stability (JFTOT), Break Point	ASTM D3241
Thermal Oxidation Stability (JFTOT), 260°C	ASTM D3241
Thermometer Calibration (per point)	ASTM E1 & E77
Top Layer, Volume %	GL-30
TIC/TOC, Total Organic Carbon and Inorganic Carbon in Water	ASTM D4839

U

UOP Characterization Factor, Calculation	UOP 375
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Prices by Request

U	
UV-Vis Spectroscopy	ARC-GL-USVIS
V	
Viscosity, Opaque Liquids, above 0°C, mm ² /s(cSt)	ASTM D445
Viscosity, Transparent Liquid, above 0°C, mm ² /s(cSt)	ASTM D445
Viscosity, Opaque Liquids, below 0°C, mm ² /s(cSt)	ASTM D445
Viscosity, Transparent Liquid, below 0°C, mm ² /s(cSt)	ASTM D445
Vapor Liquid Ratio, Nomogram Formula, °C	ASTM D4814
Vapor Lock Index	GL-48
Vapor Pressure of Petroleum Products (Mini Method)	ASTM D5191
Vapor Pressure, kPa	ASTM D323
Vapor Pressure, kPa	ASTM D4953
Viscosity Index	ASTM D2270
Visual Haze Rating	CAN/CGSB-3.0 No. 28.8
Volatility of Liquefied Petroleum (LP) Gases, 5% Residue Temperature (corrected), °C	ASTM D 1837
W	
Warm Up Index	GL-49
Water	GL-18
Water and Sediment in Crude Oil by Centrifuge Method	ASTM D4007
Water and Sediment in Middle Distillate Fuels by Centrifuge, Volume %	ASTM D2709
Water and Sediment, Volume %	ASTM D1796
Water and Sediment, Volume %	ASTM D96
Water in Crude Oil by Distillation, Mass %	ASTM D4006
Water Reaction	ASTM D1094
Water Separability, Emulsion Test	ASTM D1401
Water Separation Index, MSEP-A	ASTM D3948
Water Separation Characteristics of Kerosine-type Aviation Turbine Fuels Containing Additives by Portable Separometer	ASTM D7224
Water Tolerance (Phase Separation) of Gasoline-Alcohol Blends	ASTM D6422
Water, Karl Fischer, Crude Oil, Mass %	ASTM D4928
Water, Karl Fischer, Petroleum Products, Mass %	ASTM D6304, Procedure A

Prices by Request

W

Water, Volume %	ASTM D95
Water, Volume %	GL-27
Wax Appearance Point, °C	ASTM D3117
Wax precipitation by MEK	GL-69
Wear Preventive Characteristics of Lubricating Fluid (Four Ball Method) for Sliding Lubricants	ASTM D4172
Wick Test	GL-37

X

X-Ray Diffraction	CHEM-ARC-XRD
X-Ray Fluorescence	GL-ARC-XRF