

ANALYTICAL CAPABILITIES



Experts in Oil, Gas and Chemical Verification

Quantity and Quality Inspection | Analytical Verification Bespoke Reconciliation | Cargo Superintendency | Project Management Collateral Monitoring | Export Supervision Schemes

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Lomé Lab Capabilities



	GAS OIL & DIESEL
Test Method	Test Method Name
ASTM D86	Distillation of Petroleum Products & Liquid Fuels at Atmospheric Pressure
ASTM D93a	Flash Point by Pensky-Martens Closed Cup Tester (Manual & Automatic)
ASTM D95	Water in Petroleum Products and Bituminous Materials by Distillation
ASTM D97	Pour Point of Petroleum Products
ASTM D130	Corrosiveness to Copper from Petroleum Products by Copper Strip Test
ASTM D189	Conradson Carbon Residue of Petroleum Products
ASTM D445	Kinematic Viscosity of Transparent and Opaque Liquids and calculation of Dynamic Viscosity)
ASTM D482	Ash from Petroleum Products
ASTM D664	Acid Number of Petroleum Products by Potentiometric Titration
ASTM D974	Acid and Base Number by Color Indicator Titration
ASTM D976	Calculated Cetane Index of Distillate Fuels
ASTM D1319	Hydrocarbon types in liquid petroleum products by Fluorescent Indicator Adsorption
ASTM D1500	ASTM Color of Petroleum Products (ASTM Colour Scale)
ASTM D2068	Determining Filter Blocking Tendency
ASTM D2274	Oxidation Stability of Distillate Fuel Oil Accelerated Method
ASTM D2500	Cloud point of Petroleum Products & Liquid Fuels
ASTM D2624	Electrical Conductivity of Aviation and Distillate Fuels
ASTM D4052	Density, Relative Density, and API Gravity of Liquids by Digital Density Meter
ASTM D4176	Free water and Particulate contamination in Distillate Fuels (Visual Inspection Procedure)
ASTM D4294	Sulphur in Petroleum by Energy Dispersive X-ray Fluorescence Spectrometry
ASTM D4530	Carbon Residue (mini method)
ASTM D4868	Estimation of Net and Gross Heat of Combustion of Hydrocarbon Burner and Diesel Fuels
ASTM D4870	Determination of total sediment in residual fuels
ASTM D5453	Determination of total sulphur in light hydrocarbons spark ignition engine fuel diesel fuel and engine oil by ultraviolet fluorescence
ASTM D6217	Particulate Contamination in Middle Distillate Fuels by Laboratory Filteration
ASTM D6304	Determination of Water in Petroleum Products, Lubricating Oils and Additives by Coulometric Karl Fischer Titration
ASTM D6371	Cold Filter Plugging Point of Diesel and Heating Fuels
ASTM D7371	Determination of Biodiesel (Fatty Acid Methyl Esters)
EN 14078	Liquid petroleum products determination of fatty acid methyl ester (FAME) IR Spectrometry
IP 143	Determination of Asphaltenes
ISO 6245	Ash from Petroleum Products
ISO 8754	Determination of Sulphur content content - EDXRF
IP 570	Determination of Hydrogen Sulfide in Fuel Oil - Rapid Liquid Phase Extraction Method

Lomé Lab Capabilities



FUEL OIL	
Test Method	Test Method Name
ASTM D93b	Flash Point by Pensky-Martens Closed Cup Tester (Manual & Automatic)
ASTM D95	Water in Petroleum Products and Bituminous Materials by Distillation
ASTM D97	Pour Point of Petroleum Products
ASTM D189	Conradson Carbon Residue of Petroleum Products
ASTM D445	Kinematic Viscosity of Transparent & Opaque Liquids (& calculation of Dynamic Viscosity)
ASTM D473	Sediment by Extraction
ASTM D482	Ash from Petroleum Products
ASTM D664	Acid Number of Petroleum Products by Potentiometric Titration
ASTM D1298	Density, Relative Density, or API Gravity of Crude Petroleum and Liquid Petroleum Products by Hydrometer Method
ASTM D4294	Sulphur in Petroleum by Energy Dispersive X-ray Fluorescence Spectrometry
ASTM D4530	Carbon Residue (mini method)
ASTM D4530	MCRT ON 10% Distillation Residue
ASTM D4740	Cleanliness and Compatibility of Residual Fuels by spot Test
ASTM D4868	Estimation of Net and Gross Heat of Combustion of Hydrocarbon Burner and Diesel Fuels
ASTM D4870	Determination of total sediment in residual fuels
ASTM D6304	Determination of Water in Petroleum Products, Lubricating Oils and Additives by Coulometric Karl Fischer Titration
IP 143	Determination of Asphaltenes
IP 501	Determination of metals in residual fuel oil by ashing, fusion and Inductively Coupled Plasma Emission Spectrometry
IP 570	Determination of Hydrogen Sulfide in Fuel Oil - Rapid Liquid Phase Extraction Method
ISO 6245	Ash from Petroleum Products
ISO 8217	Carbon Aromaticity Index Calculation
ISO 8754	Determination of Sulphur content content - EDXRF
ISO 10307-1	Determination of Total Sediment in Residual Fuel Oil by Hot Filtration
ISO 10307-2	Determination of Total Sediment in Residual Fuel Oil Using Standard Procedures for Ageing

Lomé Lab Capabilities

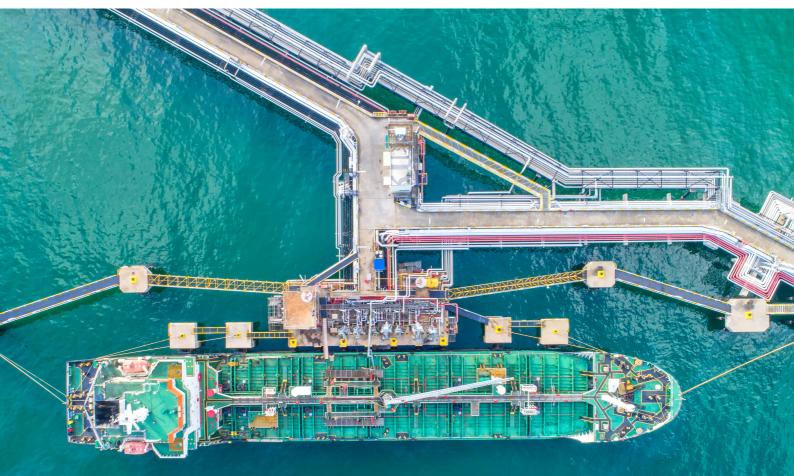


KEROSENE & JET FUEL	
Test Method	Test Method Name
N/A	Appearance (visual Inspection Procedure))
N/A	Free water (Visual Inspection Procedure)
ASTM D86	Distillation of Petroleum Products & Liquid Fuels at Atmospheric Pressure
ASTM D130	Corrosiveness to Copper from Petroleum Products by Copper Strip Test
ASTM D156	Saybolt Colour of Petroleum Products (Saybolt Chromometer Method)
ASTM D1319	Hydrocarbon types in liquid petroleum products by Fluorescent Indicator Adsorption
ASTM D3828	Flash Point by small scale closed cup tester
ASTM D4052	Density, Relative Density, and API Gravity of Liquids by Digital Density Meter
ASTM D4294	Sulphur in Petroleum by Energy Dispersive X-ray Fluorescence Spectrometry
ASTM D5453	Determination of total sulphur in light hydrocarbons spark ignition engine fuel diesel fuel and engine oil by ultraviolet fluorescence
ISO 8754	Determination of Sulphur content content - EDXRF
IP 30	Doctor Test
IP 570	Determination of Hydrogen Sulfide in Fuel Oil - Rapid Liquid Phase Extraction Method

	CRUDE	
Test Method	Test Method Name	
ASTM D93b	Flash Point by Pensky-Martens Closed Cup Tester (Manual & Automatic)	
ASTM D97	Pour Point of Petroleum Products	
ASTM D473	Sediment by Extraction	
ASTM D482	Ash from Petroleum Products	
ASTM D664	Acid Number of Petroleum Products by Potentiometric Titration	
ASTM D1298	Density, Relative Density, or API Gravity of Crude Petroleum and Liquid Petroleum Products by Hydrometer Method	
ASTM D4052	Density Determination by Densitometer	
ASTM D4294	Sulphur in Petroleum by Energy Dispersive X-ray Fluorescence Spectrometry	
ASTM D4530	MCRT ON 10% Distillation Residue	
IP 501	Determination of metals in residual fuel oil by ashing, fusion and Inductively Coupled Plasma Emission Spectrometry	
ISO 6245	Ash from Petroleum Products	
ISO 8754	Determination of Sulphur content content - EDXRF	



GASOLINE & LIGHT DISTILLATES	
Test Method	Test Method Name
ASTM D86	Distillation of Petroleum Products & Liquid Fuels at Atmospheric Pressure
ASTM D130	Corrosiveness to Copper from Petroleum Products by Copper Strip Test
ASTM D156	Saybolt Colour of Petroleum Products (Saybolt Chromometer Method)
ASTM D323	Vapor Pressure of petroleum products (Reid Method)
ASTM D381	Gum Content in Fuels
ASTM D525	Oxidation Stability in gasoline (induction period)
ASTM D1094	Water reaction of Aviation Fuels
ASTM D1319	Hydrocarbon types in liquid petroleum products by Fluorescent Indicator Adsorption
ASTM D4052	Density, Relative Density, and API Gravity of Liquids by Digital Density Meter
ASTM D4294	Sulphur in Petroleum by Energy Dispersive X-ray Fluorescence Spectrometry
ASTM D4176	Free water and Particulate contamination in Distillate Fuels (Visual Inspection Procedure)
ASTM D5059	Lead in gasoline by X-ray Fluorescence Spectroscopy
ASTM D5453	Determination of total sulphur in light hydrocarbons spark ignition engine fuel diesel fuel and engine oil by ultraviolet fluorescence
ASTM D5845	Methanol in Gasoline by Infrared
ASTM D7525	Oxidation Stability of Spark Ignition Fuel—Rapid Small
ISO 8754	Determination of Sulphur content content - EDXRF
IP 570	Determination of Hydrogen Sulfide in Fuel Oil - Rapid Liquid Phase Extraction Method



Lagos Lab Capabilities



	GAS OIL & DIESEL
Test Method	Test Method Name
ASTM D86	Distillation of Petroleum Products & Liquid Fuels at Atmospheric Pressure (Manual)
ASTM D93a	Flash Point by Pensky-Martens Closed Cup Tester (Manual)
ASTM D95	Water in Petroleum Products and Bituminous Materials by Distillation
ASTM D97	Pour Point of Petroleum Products
ASTM D130	Corrosiveness to Copper from Petroleum Products by Copper Strip Test
ASTM D189	Conradson Carbon Residue of Petroleum Products
ASTM D445	Kinematic Viscosity of Transparent and Opaque Liquid (and calculation of Dynamic Viscosity)
ASTM D482	Ash from Petroleum Products
ASTM D974	Acid and Base Number by Color-Indicator Titration
ASTM D974	Acid and Base Number by Color Indicator Titration
ASTM D976	Calculated Cetane Index of Distillate Fuels
ASTM D1298	Density, Relative Density, or API Gravity of Crude Petroleum and Liquid Petroleum Products by Hydrometer Method
ASTM D1500	ASTM Color of Petroleum Products (ASTM Colour Scale)
ASTM D2500	Cloud point of Petroleum Products & Liquid Fuels
ASTM D4052	Density, Relative Density, and API Gravity of Liquids by Digital Density Meter
ASTM D4176	Free water and Particulate contamination in Distillate Fuels (Visual Inspection Procedure)
ASTM D4294	Sulphur in Petroleum by Energy Dispersive X-ray Fluorescence Spectrometry
ASTM D4530	Carbon Residue (mini method)
ASTM D4530	MCRT ON 10% Distillation Residue
ASTM D4868	Estimation of Net and Gross Heat of Combustion of Hydrocarbon Burner and Diesel Fuels
ASTM D4737	Calculated Cetane Index of Distillate Fuels
N/A	Appearance (visual Inspection Procedure))
N/A	Free water (Visual Inspection Procedure)

	CRUDE
Test Method	Test Method Name
ASTM D93b	Flash Point by Pensky-Martens Closed Cup Tester (Manual)
ASTM D95	Water in Petroleum Products and Bituminous Materials by Distillation
ASTM D97	Pour Point of Petroleum Products
ASTM D189	Conradson Carbon Residue of Petroleum Products
ASTM D482	Ash from Petroleum Products
ASTM D1298	Density, Relative Density, or API Gravity of Crude Petroleum and Liquid Petroleum Products by Hydrometer Method
ASTM D3230	Salts in Crude Oil (Electrometric Method)
ASTM D4052	Density, Relative Density, and API Gravity of Liquids by Digital Density Meter
ASTM D4294	Sulphur in Petroleum by Energy Dispersive X-ray Fluorescence Spectrometry
ASTM D445	Kinematic Viscosity of Transparent and Opaque Liquid (and calculation of Dynamic Viscosity)
ASTM D4530	Carbon Residue (mini method)
IP 265	Salts in Crude Oil (Electrometric Method)

Lagos Lab Capabilities



GASOLINE & LIGHT DISTILLATES	
Test Method	Test Method Name
ASTM D130	Corrosiveness to Copper from Petroleum Products by Copper Strip Test
ASTM D323	Vapor Pressure of petroleum products (Reid Method)
ASTM D381	Gum Content in Fuels
ASTM D525	Oxidation Stability in gasoline (induction period)
ASTM D1298	Density, Relative Density, or API Gravity of Crude Petroleum and Liquid Petroleum Products by Hydrometer Method
ASTM D4052	Density, Relative Density, and API Gravity of Liquids by Digital Density Meter
ASTM D4176	Free water and Particulate contamination in Distillate Fuels (Visual Inspection Procedure)
ASTM D4294	Sulphur in Petroleum by Energy Dispersive X-ray Fluorescence Spectrometry
ASTM D4815	Determination of MTBE, ETBE, TAME, DIPE, tertiary-Amyl Alcohol and C1 to C4 Alcohols in Gasoline by Gas Chromatography
ASTM D5580	Determination of Aromatics in Finished Gasoline by Gas Chromatography
Calculation	Anti-Knock Index
ISO 8754	Determination of Sulphur content content - EDXRF
IP 123	Distillation of Petroleum Products & Liquid Fuels at Atmospheric Pressure (Manual)
N/A	Appearance (visual Inspection Procedure))
N/A	Free water (Visual Inspection Procedure)
Zeltex	Research Octane Number
Zeltex	Motor Octane Number

LUBE OIL	
Test Method	Test Method Name
ASTM D86	Distillation of Petroleum Products & Liquid Fuels at Atmospheric Pressure (Manual)
ASTM D95	Water in Petroleum Products and Bituminous Materials by Distillation
ASTM D130	Corrosiveness to Copper from Petroleum Products by Copper Strip Test
ASTM D445	Kinematic Viscosity of Transparent and Opaque Liquid (and calculation of Dynamic Viscosity)
ASTM D482	Ash from Petroleum Products
ASTM D1298	Density, Relative Density, or API Gravity of Crude Petroleum and Liquid Petroleum Products by Hydrometer Method
ASTM D1500	ASTM Color of Petroleum Products (ASTM Colour Scale)
ASTM D2500	Cloud point of Petroleum Products & Liquid Fuels
ASTM D4052	Density, Relative Density, and API Gravity of Liquids by Digital Density Meter
ASTM D4176	Free water and Particulate contamination in Distillate Fuels (Visual Inspection Procedure)
ASTM D4294	Sulphur in Petroleum by Energy Dispersive X-ray Fluorescence Spectrometry
ASTM D4868	Estimation of Net and Gross Heat of Combustion of Hydrocarbon Burner and Diesel Fuels

Lagos Lab Capabilities



	FUEL OIL	
Test Method	Test Method Name	
ASTM D86	Distillation of Petroleum Products & Liquid Fuels at Atmospheric Pressure (Manual)	
ASTM D93b	Flash Point by Pensky-Martens Closed Cup Tester (Manual)	
ASTM D95	Water in Petroleum Products and Bituminous Materials by Distillation	
ASTM D97	Pour Point of Petroleum Products	
ASTM D189	Conradson Carbon Residue of Petroleum Products	
ASTM D445	Kinematic Viscosity of Transparent and Opaque Liquid (and calculation of Dynamic Viscosity)	
ASTM D482	Ash from Petroleum Products	
ASTM D1298	Density, Relative Density, or API Gravity of Crude Petroleum and Liquid Petroleum Products by Hydrometer Method	
ASTM D4052	Density, Relative Density, and API Gravity of Liquids by Digital Density Meter	
ASTM D4294	Sulphur in Petroleum by Energy Dispersive X-ray Fluorescence Spectrometry	
ASTM D4530	Carbon Residue (mini method)	
ASTM D4530	MCRT ON 10% Distillation Residue	
ASTM D4740	Cleanliness and Compatibility of Residual Fuels by spot Test	
ASTM D4868	Estimation of Net and Gross Heat of Combustion of Hydrocarbon Burner and Diesel Fuels	
ISO 8217	Carbon Aromaticity Index Calculation	

KEROSENE & JET FUEL

Test Method	Test Method Name
ASTM D86	Distillation of Petroleum Products & Liquid Fuels at Atmospheric Pressure (Manual)
ASTM D95	Water in Petroleum Products and Bituminous Materials by Distillation
ASTM D130	Corrosiveness to Copper from Petroleum Products by Copper Strip Test
ASTM D1298	Density, Relative Density, or API Gravity of Crude Petroleum and Liquid Petroleum Products by Hydrometer Method
ASTM D2500	Cloud point of Petroleum Products & Liquid Fuels
ASTM D2624	Electrical Conductivity of Aviation and Distillate Fuels
ASTM D4052	Density, Relative Density, and API Gravity of Liquids by Digital Density Meter
ASTM D4294	Sulphur in Petroleum by Energy Dispersive X-ray Fluorescence Spectrometry
IP 170	Determination of flash point – Abel closed-cup method
N/A	Appearance (visual Inspection Procedure))
N/A	Free water (Visual Inspection Procedure)



Angola Petroleum Product Testing



CRUDE OIL		
Test Method	Test Method Name	
ASTM D1298	Density, Relative Density, or API Gravity of Crude Petroleum and Liquid Petroleum Products by Hydrometer Method	
Calculation	API calculated per Relative Density determined by Hydrometer method	
ASTM D92	Standard Test Method for Flash and Fire Points by Cleveland Open Cup Tester	
ASTM D4006	Water in Petroleum Products and Bituminous Materials by Distillation	
ASTM D3230	Coming Soon. Salt Content in Crude Oil (Electrometric Method)	

GASOIL/DIESEL		
Test Method	Test Method Name	
ASTM D1298	Density, Relative Density, or API Gravity of Crude Petroleum and Liquid Petroleum Products by Hydrometer Method	
Calculation	API calculated per Relative Density determined by Hydrometer method	
Visual	Appearance (visual Inspection Procedure))	
ASTM D92	Standard Test Method for Flash and Fire Points by Cleveland Open Cup Tester	
ASTM D95	Water in Petroleum Products and Bituminous Materials by Distillation	

GASOLINE		
Test Method	Test Method Name	
ASTM D1298	Density, Relative Density, or API Gravity of Crude Petroleum and Liquid Petroleum Products by Hydrometer Method	
Calculation	API calculated per Relative Density determined by Hydrometer method	
Visual	Appearance (visual Inspection Procedure))	

JET/ KEROSENE		
Test Method	Test Method Name	
ASTM D1298	Density, Relative Density, or API Gravity of Crude Petroleum and Liquid Petroleum Products by Hydrometer Method	
Calculation	API calculated per Relative Density determined by Hydrometer method	
Visual	Appearance (visual Inspection Procedure))	
ASTM D92	Standard Test Method for Flash and Fire Points by Cleveland Open Cup Tester	
ASTM D95	Water in Petroleum Products and Bituminous Materials by Distillation	

CUTBACK		
Test Method	Test Method Name	
Visual	Appearance (visual Inspection Procedure))	
ASTM D92	Standard Test Method for Flash and Fire Points by Cleveland Open Cup Tester	
ASTM D95	Water in Petroleum Products and Bituminous Materials by Distillation	

Key Contacts



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