



**Batumi Oil Terminal LLC
Oil and Gas Analysis Testing Laboratory
Scope of Accreditation (Testing)**



ССТ ИСО/ИЭК 17025:2010
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25.11.2014 – 25.11.2018

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№	Testing product / Material	Method Identification ¹		Method title
1.	Crude oil	GOST	3900	Crude oil and petroleum products. Standard Test Method for Determination of Density
		ASTM D	5002	Standard Test Method for Density and Relative Density of Crude Oils by Digital Density Analyzer
		ASTM D	1250	Standard Guide for Use of the Petroleum Measurement Tables
		ASTM D	4294	Standard Test Method for Sulfur in Petroleum and Petroleum Products by Energy Dispersive X-ray Fluorescence Spectrometry
		ASTM D	4928	Standard Test Method for Water in Crude Oils by Coulometric Karl Fischer Titration
		GOST	2477	Crude oil and petroleum products. Standard Test Method for Determination of Water
		ASTM D	473	Standard Test Method for Sediment in Crude Oils and Fuel Oils by the Extraction Method
		ASTM D	4807	Standard Test Method for Sediment in Crude Oil by Membrane Filtration
		GOST	21534	Standard Test Method for Chlorid Salts of Crude Oils
		ASTM D	5853	Standard Test Method for Pour Point of Crude Oils
		ASTM D	445	Standard Test Method for Kinematic Viscosity of Transparent and Opaque Liquids (and Calculation of Dynamic Viscosity)
		GOST	2177	Standard Test Method for Distillation of Petroleum Products
		ASTM D	323	Standard Test Method for Vapor Pressure of Petroleum Products (Reid Method)

¹ The year of procedure / method publishing is controlled and updated by the Integrated Management System and Standardization Department

№	Testing product / Material	Method Identification ¹		Method title
2.	Fuel Oil	GOST	3900	Crude oil and petroleum products. Standard Test Method for Determination of Density
		ASTM D	4052	Standard Test Method for Density, Relative Density, and API Gravity of Liquids by Digital Density Meter
		ASTM D	1250	Standard Guide for Use of the Petroleum Measurement Tables
		ASTM D	445	Standard Test Method for Kinematic Viscosity of Transparent and Opaque Liquids (and Calculation of Dynamic Viscosity)
		GOST	6258	Standard Test Method for Relative Viscosity of Petroleum Products
		ASTM D	473	Standard Test Method for Sediment in Crude Oils and Fuel Oils by the Extraction Method
		ASTM D	4807	Standard Test Method for Sediment in Crude Oil by Membrane Filtration
		GOST	2477	Crude oil and petroleum products. Standard Test Method for Determination of Water
		ASTM D	4294	Standard Test Method for Sulfur in Petroleum and Petroleum Products by Energy Dispersive X-ray Fluorescence Spectrometry
		ASTM D	97	Standard Test Method for Pour Point of Petroleum Products
		GOST	1461	Standard Test Method for Ash content of Crude Oil and Petroleum Products
		GOST	19932	Standard Test Method for Carbon content in Petroleum Products by Conradson
		GOST	6307	Standard Test Method for Water-soluble Acids and alkalies in Petroleum Products
		ASTM D	93	Standard Test Methods for Flash Point by Pensky-Martens Closed Cup Tester
ASTM D	92	Standard Test Method for Flash and Fire Points by Cleveland Open Cup Tester		

№	Testing product / Material	Method Identification ¹		Method title
3.	Gasoline	GOST	511	Standard Test Method for Octane number in Gasoline by Motor Method
		GOST	8226	Standard Test Method for Octane number in Gasoline by Research Method
		GOST	2177	Standard Test Method for Distillation of Petroleum Products
		ASTM D	323	Standard Test Method for Vapor Pressure of Petroleum Products (Reid Method)
		ASTM D	381	Standard Test Method for Gum Content in Fuels by Jet Evaporation
		GOST	3900	Crude oil and petroleum products. Standard Test Method for Determination of Density
		ASTM D	4052	Standard Test Method for Density, Relative Density, and API Gravity of Liquids by Digital Density Meter
		ASTM D	1250	Standard Guide for Use of the Petroleum Measurement Tables
		ASTM D	4294	Standard Test Method for Sulfur in Petroleum and Petroleum Products by Energy Dispersive X-ray Fluorescence Spectrometry
		GOST	5985	Standard Test Method for Acidity and Acid Number in Petroleum Products
		ASTM D	3227	Standard Test Method for (Thiol Mercaptan) Sulfur in Gasoline, Kerosine, Aviation Turbine, and Distillate Fuels (Potentiometric Method)
		GOST	6307	Standard Test Method for Water-soluble Acids and Alkalies in Petroleum Products
GOST	28828	Standard Test Method for Lead in Gasolines		
4.	Gas Gasoline	GOST	3900	Crude oil and petroleum products. Standard Test Method for Determination of Density
		ASTM D	4052	Standard Test Method for Density, Relative Density, and API Gravity of Liquids by Digital Density Meter
		ASTM D	1250	Standard Guide for Use of the Petroleum Measurement Tables
		GOST	2177	Standard Test Method for Distillation of Petroleum Products
		ASTM D	381	Standard Test Method for Gum Content in Fuels by Jet Evaporation
		ASTM D	323	Standard Test Method for Vapor Pressure of Petroleum Products (Reid Method)
		ASTM D	4294	Standard Test Method for Sulfur in Petroleum and Petroleum Products by Energy Dispersive X-ray Fluorescence Spectrometry
		ASTM D	130	Standard Test Method for Corrosiveness to Copper from Petroleum Products by Copper Strip Test
		GOST	5985	Standard Test Method for Acidity and Acid Number in Petroleum Products
		GOST	6307	Standard Test Method for Water-soluble Acids and alkalies in Petroleum Products

№	Testing product / Material	Method Identification ¹		Method title
5.	Naphtha	GOST	3900	Crude oil and petroleum products. Standard Test Method for Determination of Density
		ASTM D	4052	Standard Test Method for Density, Relative Density, and API Gravity of Liquids by Digital Density Meter
		ASTM D	1250	Standard Guide for Use of the Petroleum Measurement Tables
		GOST	2177	Standard Test Method for Distillation of Petroleum Products
		ASTM D	381	Standard Test Method for Gum Content in Fuels by Jet Evaporation
		ASTM D	323	Standard Test Method for Vapor Pressure of Petroleum Products (Reid Method)
		GOST	511	Standard Test Method for Octane number in Gasoline by motor method
		GOST	8226	Standard Test Method for Octane number in Gasoline by Research Method
		GOST	5985	Standard Test Method for Acidity and Acid Number in Petroleum Products
		ASTM D	4294	Standard Test Method for Sulfur in Petroleum and Petroleum Products by Energy Dispersive X-ray Fluorescence Spectrometry
		ASTM D	130	Standard Test Method for Corrosiveness to Copper from Petroleum Products by Copper Strip Test
		ASTM D	3227	Standard Test Method for (Thiol Mercaptan) Sulfur in Gasoline, Kerosine, Aviation Turbine, and Distillate Fuels (Potentiometric Method)
		ASTM D	156	Standard Test Method for Saybolt Color of Petroleum Products (Saybolt Chromometer Method)

№	Testing product / Material	Method Identification ¹		Method title
6.	Diesel Fuel	GOST	3900	Crude oil and petroleum products. Standard Test Method for Determination of Density
		ASTM D	4052	Standard Test Method for Density, Relative Density, and API Gravity of Liquids by Digital Density Meter
		ASTM D	1250	Standard Guide for Use of the Petroleum Measurement Tables
		GOST	2177	Standard Test Method for Distillation of Petroleum Products
		GOST	3122	Standard Test Method for Cetane number of Diesel Fuels
		ASTM D	97	Standard Test Method for Pour Point of Petroleum Products
		ASTM D	445	Standard Test Method for Kinematic Viscosity of Transparent and Opaque Liquids (and Calculation of Dynamic Viscosity)
		GOST	2177	Standard Test Method for Distillation of Petroleum Products
		ASTM D	93	Standard Test Methods for Flash Point by Pensky-Martens Closed Cup Tester
		ASTM D	130	Standard Test Method for Corrosiveness to Copper from Petroleum Products by Copper Strip Test
		GOST	6307	Standard Test Method for Water-soluble Acids and alkalies in Petroleum Products
		ASTM D	381	Standard Test Method for Gum Content in Fuels by Jet Evaporation
		GOST	5985	Standard Test Method for Acidity and Acid Number in Petroleum Products
		ASTM D	4807	Standard Test Method for Sediment in Crude Oil by Membrane Filtration
		EN	12662	Liquid petroleum products. Determination of total contamination in middle distillates, diesel fuels and fatty acid methyl esters
		GOST	2477	Crude oil and petroleum products. Standard Test Method for Determination of Water
		ASTM D	2500	Standard Test Method for Cloud Point of Petroleum Products and Liquid Fuels
		ASTM D	4294	Standard Test Method for Sulfur in Petroleum and Petroleum Products by Energy Dispersive X-ray Fluorescence Spectrometry
		GOST	1461	Standard Test Method for Ash content of Crude Oil and Petroleum Products
		GOST	19932	Standard Test Method for Carbon content in Petroleum Products by Conradson ation
GOST	2070	Standard Test Method for Iodine Number and Unsaturated Hydrocarbons Content in Light Petroleum Products		
ASTM D	3227	Standard Test Method for (Thiol Mercaptan) Sulfur in Gasoline, Kerosine, Aviation Turbine, and Distillate Fuels (Potentiometric Method)		
ASTM D	1500	Standard Test Method for ASTM Color of Petroleum Products (ASTM Color Scale)		

№	Testing product / Material	Method Identification ¹		Method title
7.	Diesel Fuel «EURO 590»	GOST	3900	Crude oil and petroleum products. Standard Test Method for Determination of Density
		ASTM D	4052	Standard Test Method for Density, Relative Density, and API Gravity of Liquids by Digital Density Meter
		ASTM D	1250	Standard Guide for Use of the Petroleum Measurement Tables
		GOST	2177	Standard Test Method for Distillation of Petroleum Products
		GOST	3122	Standard Test Method for Cetane number of Diesel Fuels
		ASTM D	97	Standard Test Method for Pour Point of Petroleum Products
		ASTM D	445	Standard Test Method for Kinematic Viscosity of Transparent and Opaque Liquids (and Calculation of Dynamic Viscosity)
		GOST	2177	Standard Test Method for Distillation of Petroleum Products
		ASTM D	93	Standard Test Methods for Flash Point by Pensky-Martens Closed Cup Tester
		ASTM D	6304	Standard Test Method for Determination of Water in Petroleum Products, Lubricating Oils, and Additives by Coulometric Karl Fischer Titration
		ASTM D	130	Standard Test Method for Corrosiveness to Copper from Petroleum Products by Copper Strip Test
		ASTM D	1500	Standard Test Method for ASTM Color of Petroleum Products (ASTM Color Scale)
		ASTM D	2500	Standard Test Method for Cloud Point of Petroleum Products and Liquid Fuels
		ASTM D	4294	Standard Test Method for Sulfur in Petroleum and Petroleum Products by Energy Dispersive X-ray Fluorescence Spectrometry

№	Testing product / Material	Method Identification ¹		Method title
8.	Diesel Fuel Hydrotreated	GOST	3900	Crude oil and petroleum products. Standard Test Method for Determination of Density
		ASTM D	4052	Standard Test Method for Density, Relative Density, and API Gravity of Liquids by Digital Density Meter
		ASTM D	1250	Standard Guide for Use of the Petroleum Measurement Tables
		GOST	2177	Standard Test Method for Distillation of Petroleum Products
		GOST	3122	Standard Test Method for Cetane number of Diesel Fuels
		ASTM D	445	Standard Test Method for Kinematic Viscosity of Transparent and Opaque Liquids (and Calculation of Dynamic Viscosity)
		ASTM D	3227	Standard Test Method for (Thiol Mercaptan) Sulfur in Gasoline, Kerosine, Aviation Turbine, and Distillate Fuels (Potentiometric Method)
		ASTM D	93	Standard Test Methods for Flash Point by Pensky-Martens Closed Cup Tester
		ASTM D	6304	Standard Test Method for Determination of Water in Petroleum Products, Lubricating Oils, and Additives by Coulometric Karl Fischer Titration
		ASTM D	97	Standard Test Method for Pour Point of Petroleum Products
		ASTM D	130	Standard Test Method for Corrosiveness to Copper from Petroleum Products by Copper Strip Test
		GOST	1461	Standard Test Method for Ash content of Crude Oil and Petroleum Products
		GOST	19932	Standard Test Method for Carbon content in Petroleum Products by Conradson ation
		ASTM D	4807	Standard Test Method for Sediment in Crude Oil by Membrane Filtration
		ASTM D	1500	Standard Test Method for ASTM Color of Petroleum Products (ASTM Color Scale)
ASTM D	4294	Standard Test Method for Sulfur in Petroleum and Petroleum Products by Energy Dispersive X-ray Fluorescence Spectrometry		

№	Testing product / Material	Method Identification ¹		Method title
9.	Motor Fuel	GOST	3900	Crude oil and petroleum products. Standard Test Method for Determination of Density
		ASTM D	4052	Standard Test Method for Density, Relative Density, and API Gravity of Liquids by Digital Density Meter
		ASTM D	1250	Standard Guide for Use of the Petroleum Measurement Tables
		GOST	2177	Standard Test Method for Distillation of Petroleum Products
		ASTM D	445	Standard Test Method for Kinematic Viscosity of Transparent and Opaque Liquids (and Calculation of Dynamic Viscosity)
		GOST	1461	Standard Test Method for Ash content of Crude Oil and Petroleum Products
		GOST	19932	Standard Test Method for Carbon content in Petroleum Products by Conradson ation
		ASTM D	3227	Standard Test Method for (Thiol Mercaptan) Sulfur in Gasoline, Kerosine, Aviation Turbine, and Distillate Fuels (Potentiometric Method)
		ASTM D	4294	Standard Test Method for Sulfur in Petroleum and Petroleum Products by Energy Dispersive X-ray Fluorescence Spectrometry
		GOST	6307	Standard Test Method for Water-soluble Acids and alkalies in Petroleum Products
		ASTM D	4807	Standard Test Method for Sediment in Crude Oil by Membrane Filtration
		ASTM D	93	Standard Test Methods for Flash Point by Pensky-Martens Closed Cup Tester
		ASTM D	97	Standard Test Method for Pour Point of Petroleum Products
ASTM D	6304	Standard Test Method for Determination of Water in Petroleum Products, Lubricating Oils, and Additives by Coulometric Karl Fischer Titration		

№	Testing product / Material	Method Identification ¹		Method title
10.	Jet Fuel	GOST	3900	Crude oil and petroleum products. Standard Test Method for Determination of Density
		ASTM D	4052	Standard Test Method for Density, Relative Density, and API Gravity of Liquids by Digital Density Meter
		ASTM D	1250	Standard Guide for Use of the Petroleum Measurement Tables
		GOST	2177	Standard Test Method for Distillation of Petroleum Products
		ASTM D	445	Standard Test Method for Kinematic Viscosity of Transparent and Opaque Liquids (and Calculation of Dynamic Viscosity)
		GOST	11065	Calculation Method for the Determination of Lower Specific Calorific Value of Jet fuels
		GOST	4338	Standard Test Method for Smoke Point of Gas Turbine Engine Jet Fuel
		GOST	5985	Standard Test Method for Acidity and Acid Number in Petroleum Products
		GOST	2070	Standard Test Method for Iodine Number and Unsaturated Hydrocarbons Content in Light Petroleum Products
		ASTM D	93	Standard Test Methods for Flash Point by Pensky-Martens Closed Cup Tester
		GOST	5066	Standard Test Methods for Cloud Point, Initial Crystallization Point and Crystallization of Motor Fuels
		GOST	11802	Standard Test Method for Thermal Oxidation Stability in Static Conditions of Jet Fuels
		GOST	6994	Standard Test Method for Aromatic Hydrocarbons of Light Petroleum Products
		ASTM D	381	Standard Test Method for Gum Content in Fuels by Jet Evaporation
		ASTM D	4294	Standard Test Method for Sulfur in Petroleum and Petroleum Products by Energy Dispersive X-ray Fluorescence Spectrometry
		ASTM D	3227	Standard Test Method for (Thiol Mercaptan) Sulfur in Gasoline, Kerosine, Aviation Turbine, and Distillate Fuels (Potentiometric Method)
		ASTM D	130	Standard Test Method for Corrosiveness to Copper from Petroleum Products by Copper Strip Test
GOST	1461	Standard Test Method for Ash content of Crude Oil and Petroleum Products		
GOST	6307	Standard Test Method for Water-soluble Acids and alkalies in Petroleum Products		
GOST	21103	Standard Test Method for Naphthenic Acids of Jet Fuels		
GOST	10577	Standard Test Method for Mecanical Sediments of Petroleum Products		
GOST	27154	Standard Test Method for Compatibility with Water of Jet Fuels		

№	Testing product / Material	Method Identification ¹		Method title
11.	Technical Kerosene	GOST	3900	Crude oil and petroleum products. Standard Test Method for Determination of Density
		ASTM D	4052	Standard Test Method for Density, Relative Density, and API Gravity of Liquids by Digital Density Meter
		ASTM D	1250	Standard Guide for Use of the Petroleum Measurement Tables
		GOST	2177	Standard Test Method for Distillation of Petroleum Products
		GOST	5985	Standard Test Method for Acidity and Acid Number in Petroleum Products
		GOST	1461	Standard Test Method for Ash content of Crude Oil and Petroleum Products
		ASTM D	381	Standard Test Method for Gum Content in Fuels by Jet Evaporation
		ASTM D	4294	Standard Test Method for Sulfur in Petroleum and Petroleum Products by Energy Dispersive X-ray Fluorescence Spectrometry
		ASTM D	130	Standard Test Method for Corrosiveness to Copper from Petroleum Products by Copper Strip Test
		GOST	6307	Standard Test Method for Water-soluble Acids and alkalis in Petroleum Products
		ASTM D	93	Standard Test Methods for Flash Point by Pensky-Martens Closed Cup Tester
12.	Burning Kerosene	GOST	3900	Crude oil and petroleum products. Standard Test Method for Determination of Density
		ASTM D	4052	Standard Test Method for Density, Relative Density, and API Gravity of Liquids by Digital Density Meter
		ASTM D	1250	Standard Guide for Use of the Petroleum Measurement Tables
		GOST	2177	Standard Test Method for Distillation of Petroleum Products
		ASTM D	156	Standard Test Method for Saybolt Color of Petroleum Products (Saybolt Chromometer Method)
		GOST	4338	Standard Test Method for Smoke Point of Gas Turbine Engine Jet Fuel
		GOST	5985	Standard Test Method for Acidity and Acid Number in Petroleum Products
		GOST	1461	Standard Test Method for Ash content of Crude Oil and Petroleum Products
		ASTM D	2500	Standard Test Method for Cloud Point of Petroleum Products and Liquid Fuels
		ASTM D	4294	Standard Test Method for Sulfur in Petroleum and Petroleum Products by Energy Dispersive X-ray Fluorescence Spectrometry
		ASTM D	130	Standard Test Method for Corrosiveness to Copper from Petroleum Products by Copper Strip Test
		GOST	6307	Standard Test Method for Water-soluble Acids and alkalis in Petroleum Products
				ASTM D

№	Testing product / Material	Method Identification ¹		Method title
13.	Vacuum Gasoil	GOST	3900	Crude oil and petroleum products. Standard Test Method for Determination of Density
		ASTM D	445	Standard Test Method for Kinematic Viscosity of Transparent and Opaque Liquids (and Calculation of Dynamic Viscosity)
		GOST	2477	Crude oil and petroleum products. Standard Test Method for Determination of Water
		GOST	19932	Standard Test Method for Carbon content in Petroleum Products by Conradson ation
		ASTM D	93	Standard Test Methods for Flash Point by Pensky-Martens Closed Cup Tester
		ASTM D	92	Standard Test Method for Flash and Fire Points by Cleveland Open Cup Tester
		ASTM D	97	Standard Test Method for Pour Point of Petroleum Products
14.	Axle Oil	GOST	3900	Crude oil and petroleum products. Standard Test Method for Determination of Density
		GOST	6258	Standard Test Method for Relative Viscosity of Petroleum Products
		ASTM D	445	Standard Test Method for Kinematic Viscosity of Transparent and Opaque Liquids (and Calculation of Dynamic Viscosity)
		ASTM D	473	Standard Test Method for Sediment in Crude Oils and Fuel Oils by the Extraction Method
		GOST	2477	Crude oil and petroleum products. Standard Test Method for Determination of Water
		ASTM D	93	Standard Test Methods for Flash Point by Pensky-Martens Closed Cup Tester
		ASTM D	92	Standard Test Method for Flash and Fire Points by Cleveland Open Cup Tester
		ASTM D	97	Standard Test Method for Pour Point of Petroleum Products
		ASTM D	4294	Standard Test Method for Sulfur in Petroleum and Petroleum Products by Energy Dispersive X-ray Fluorescence Spectrometry
GOST	6307	Standard Test Method for Water-soluble Acids and alkalies in Petroleum Products		

№	Testing product / Material	Method Identification ¹		Method title
15.	Jet Fuel JetA-1	GOST	3900	Crude oil and petroleum products. Standard Test Method for Determination of Density
		ASTM D	4052	Standard Test Method for Density, Relative Density, and API Gravity of Liquids by Digital Density Meter
		ASTM D	1250	Standard Guide for Use of the Petroleum Measurement Tables
		GOST	2177	Standard Test Method for Distillation of Petroleum Products
		ASTM D	156	Standard Test Method for Saybolt Color of Petroleum Products (Saybolt Chromometer Method)
		ASTM D	445	Standard Test Method for Kinematic Viscosity of Transparent and Opaque Liquids (and Calculation of Dynamic Viscosity)
		GOST	11065	Calculation Method for the Determination of Lower Specific Calorific Value of Jet fuels
		GOST	4338	Standard Test Method for Smoke Point of Gas Turbine Engine Jet Fuel
		GOST	5985	Standard Test Method for Acidity and Acid Number in Petroleum Products
		ASTM D	93	Standard Test Methods for Flash Point by Pensky-Martens Closed Cup Tester
		GOST	5066	Standard Test Methods for Cloud Point, Initial Crystallization Point and Crystallization of Motor Fuels
		GOST	6994	Standard Test Method for Aromatic Hydrocarbons of Light Petroleum Products
		ASTM D	381	Standard Test Method for Gum Content in Fuels by Jet Evaporation
		ASTM D	4294	Standard Test Method for Sulfur in Petroleum and Petroleum Products by Energy Dispersive X-ray Fluorescence Spectrometry
		ASTM D	3227	Standard Test Method for (Thiol Mercaptan) Sulfur in Gasoline, Kerosine, Aviation Turbine, and Distillate Fuels (Potentiometric Method)
ASTM D	130	Standard Test Method for Corrosiveness to Copper from Petroleum Products by Copper Strip Test		
GOST	27154	Standard Test Method for Compatibility with Water of Jet Fuels		
ASTM D	156	Standard Test Method for Saybolt Color of Petroleum Products (Saybolt Chromometer Method)		

№	Testing product / Material	Method Identification ¹		Method title
		Standard	Number	
16.	Liquefied Petroleum Gases	ASTM D	2163	Standard Test Method for Determination of Hydrocarbons in Liquefied Petroleum Gases and Propane/Propene Mixtures by Gas Chromatography
		ASTM D	1267	Standard Test Method for Gage Vapor Pressure of Liquefied Petroleum (LP) Gases (LP-Gas Method)
		ISO	8973	Liquefied petroleum gases -- Calculation method for density and vapour pressure
		IP	432	Liquefied Petroleum Gases - Calculation Method for Density and Vapour Pressure
		ASTM D	1838	Standard Test Method for Copper Strip Corrosion by Liquefied Petroleum (LP) Gases
		ASTM D	2598	Standard Practice for Calculation of Certain Physical Properties of Liquefied Petroleum (LP) Gases from Compositional Analysis
		ASTM D	2163	Standard Test Method for Determination of Hydrocarbons in Liquefied Petroleum Gases and Propane/Propene Mixtures by Gas Chromatography