

As an accredited laboratory, this laboratory is entitled to use the following accreditation symbol.



Valid from 30 October 2019
to 30 November 2020
Issued on 30 October 2019



ISO/ IEC 17025
TL 089-01

Schedule of Accreditation

Accreditation Scheme for Testing Laboratories
Sri Lanka Accreditation Board for Conformity Assessment
Accreditation Number: TL 089-01

Ceylon Petroleum Storage Terminals Ltd
Main Laboratory
Wellampitiya
Kolonnawa

Scope of Accreditation: Performing Chemical testing on Gas oil, Fuel oil, Gasolene, JET A-1, Naphtha, SBP, Kerosene as per ASTM, IP and ISO methods

The laboratory is accredited for the following tests.

SI No.	Product(s) / Material of test	Specific tests performed	Test method / Standard against which tests are performed	Range of testing / Limits of detection
1	Gas Oil (500 ppm Max S, 10 ppm Max. S, Marine Gas Oil), Fuel Oil (Fuel Oil 800 secs, Low Sulphur Fuel Oil 1500 secs, High Sulphur Fuel Oil 180 cSt, Low Sulphur Fuel Oil 180 cSt, RMG 380, RMG 180), Gasolene (92 & 95 Octane, Aviation Gasolene), JET A-1, Naphtha, Special Boiling Point (SBP), Kerosene.	Manual Sampling of Petroleum and Petroleum Products	ASTM D4057 – 12 (Reapproved 2018)	Sample density in range of 600 - 1100 kg/m ³ @ 15°C
2	Fuel Oil (Fuel Oil 800 secs, Low Sulphur Fuel Oil 1500 secs, High Sulphur Fuel Oil 180 cSt, Low Sulphur Fuel Oil 180 cSt)	Strong Acid Number	ASTM D 974 – 14 ^{E2}	Dissociation constant larger than 10 ⁻⁹ in water
3	Gas Oil (500 ppm Max S, 10 ppm Max. S, Marine Gas Oil), Fuel Oil (Fuel Oil 800 secs, Low Sulphur Fuel Oil 1500 secs, High Sulphur Fuel Oil 180 cSt, Low Sulphur Fuel Oil 180 cSt, RMG 380, RMG 180)	Ash	ASTM D 482 - 13 / ISO 6245 - 2001	0.0001 - 0.180 mass %

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4	Fuel Oil (Fuel Oil 800 secs, Low Sulphur Fuel Oil 1500 secs, High Sulphur Fuel Oil 180 cSt, Low Sulphur Fuel Oil 180 cSt,)	Asphaltenes	ASTM D 6560 - 17 / IP 143 - 1996	(0.50 - 30.0) % m/m
5	Gas Oil (500 ppm Max S, 10 ppm Max. S)	Calorific Value gross - Calculated	ASTM D 4868 -17	Applicable to the sample Density range of (750 - 1000) kg/m ³
6	Gas Oil (500 ppm Max S, 10 ppm Max. S, Marine Gas Oil)	Cetane Index (Procedure A)	ASTM D 4737 – 10 (Reapproved 2016) / ISO 4264 - 2007	40 <
7	Gas Oil (500 ppm Max S, 10 ppm Max. S)	Cloud Point	ASTM D 2500 – 17a / ISO 3015 - 1992	Below 49 °C
8	Gas Oil (500 ppm Max S)	Cold Filter Plugging Point	ASTM D 6371 – 17a	+20 °C to -15 °C
9	Gas Oil (500 ppm Max S, 10 ppm Max. S, Marine Gas Oil)	Colour ASTM	ASTM D 1500 – 12 (Reapproved 2017)	Lighter than 0.5 to 8.0 ASTM colour
10	JET A-1, Naphtha, Special Boiling Point (SBP)	Colour Saybolt	ASTM D 156 - 15	(+30 to -16) Colour Number
11	Gas Oil (500 ppm Max S, 10 ppm Max. S, Marine Gas Oil), Fuel Oil (Fuel Oil 800 secs, Low Sulphur Fuel Oil 1500 secs, High Sulphur Fuel Oil 180 cSt, Low Sulphur Fuel Oil 180 cSt, RMG 380, RMG 180)	Conradson Carbon Residue	ASTM D 189 - 06 (Reapproved 2014)	0 – 20.0 m/m %
12	Gas Oil (500 ppm Max S, 10 ppm Max. S) Gasolene (92 & 95 Octane, Aviation Gasolene), JET A-1, Naphtha, Special Boiling Point (SBP), Kerosene	Copper Corrosion	ASTM D 130 - 18	1 to 4
13	Gas Oil (500 ppm Max S, 10 ppm Max. S, Marine Gas Oil), Fuel Oil (Fuel Oil 800 secs, Low Sulphur Fuel Oil 1500 secs, High Sulphur Fuel Oil 180 cSt, Low Sulphur Fuel Oil 180 cSt, RMG 380, RMG 180), Gasolene (92 & 95 Octane, Aviation Gasolene), JET A-1, Naphtha, Special Boiling Point (SBP), Kerosene.	Density at 15°C	ASTM D 1298 - 12 b (Reapproved 2017) / ISO 3675 - 1998	(600 - 1100) kg/m ³ @ 15°C
14	Gas Oil (500 ppm Max S, 10 ppm Max. S, Marine Gas Oil), Gasolene (92 & 95 Octane, Aviation Gasolene), JET A-1, Naphtha, Special Boiling Point (SBP), Kerosene.	Density at 15°C	ASTM D 4052 -18 / ISO 12185 - 1996	(600 - 1100) kg/m ³ @ 15°C
15	Gas Oil (500 ppm Max S, 10 ppm Max. S, Marine Gas Oil), Gasolene (92 & 95 Octane, Aviation Gasolene), JET A-1, Naphtha, Special Boiling Point (SBP), Kerosene	Distillation	ASTM D 86 - 18	(0 - 400) °C
16	Gas Oil (500 ppm Max S, 10 ppm Max. S, Marine Gas Oil), Fuel Oil (Fuel Oil 800 secs, Low Sulphur Fuel Oil 1500 secs, High Sulphur Fuel Oil 180 cSt, Low Sulphur Fuel Oil 180 cSt, RMG 380, RMG 180)	Flash Point (PMcc)	ASTM D 93 - 18 / ISO 2719 - 2016	(40 - 360) °C

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17	Aviation Gasolene., JET A-1	Freezing Point (Auto)	ASTM D 7153 – 15 ^{E1}	(+20 °C to -80°C)
18	Gasolene (92 & 95 Octane, Aviation Gasolene), JET A-1	Existent Gum	ASTM D 381 – 12 (Reapproved 2017)	0 – 40 mg/100 mL
19	Gas Oil (500 ppm Max S, 10 ppm Max. S.), Fuel Oil (Fuel Oil 800 secs, Low Sulphur Fuel Oil 1500 secs, High Sulphur Fuel Oil 180 cSt, Low Sulphur Fuel Oil 180 cSt.)	Calorific Value, Gross	ASTM D 240 - 17	0 – 12000 kCal/ kg
20	Gas Oil (500 ppm Max S, 10 ppm Max. S, Marine Gas Oil), Fuel Oil (Fuel Oil 800 secs, Low Sulphur Fuel Oil 1500 secs, High Sulphur Fuel Oil 180 cSt, , Low Sulphur Fuel Oil 180 cSt, RMG 380, RMG 180), JET A-1.	Viscosity at (-) 20°C, 40°C, 50°C, 100°C	ASTM D 445 - 18 / ISO 3104 - 1994	(0.2 to 300,000) mm ² /S
21	Gas Oil (500 ppm Max S, 10 ppm Max. S)	High Frequency Reciprocating Rig. (HFRR)	ASTM D 6079 -18	390 – 670 micrometer
22	Gasoline (92 & 95 Octane), JET A-1	Mercaptain Sulphur	ASTM D 3227 - 16	0.0003 to 0.01 mass%
23	Fuel Oil (Fuel Oil 800 secs, Low Sulphur Fuel Oil 1500 secs, High Sulphur Fuel Oil 180 cSt, Low Sulphur Fuel Oil 180 cSt, RMG 380, RMG 180)	Aluminium (Al), Calcium (Ca), Phosphorus (P), Ferrous (Fe), Sodium (Na), Potassium (K), Vanadium (V), Zinc (Zn), Silicon (Si)	IP 501 / 05	Al (5 to 150) mg/kg, Si (10 to 250) mg/kg, Na (1 to 100) mg/kg, V (1 to 400), Ni (1 to 100), Fe (2 to 60) Ca (3 to 100), Zn (1 to 70) P (1 to 60)
24	Gas Oil (500 ppm Max S, 10 ppm Max. S, Marine Gas Oil), Fuel Oil (Fuel Oil 800 secs, Low Sulphur Fuel Oil 1500 secs, High Sulphur Fuel Oil 180 cSt, Low Sulphur Fuel Oil 180 cSt, RMG 380, RMG 180)	Carbon Residue – Micro method	ASTM D 4530 - 15 / ISO 10370 - 2014	(0.1 to 30.0) m/m %
25	Jet A – 1	Water Separation Characteristic of Jet A - 1 (MSEP)	ASTM D 3948 – 14 (Reapproved 2018)	0 to 100
26	Jet A – 1	Naphthalene	ASTM D 1840 – 07 (Reapproved 2017)	(0.03 - 5.60) Volume%
27	Gasolene (92 & 95 Octane)	Oxidation Stability	ASTM D 525 - 12 a	> 480 min (92 Octane), > 360 min (95 Octane),
28	Gasolene (92 & 95 Octane)	Oxygenates	ASTM D 4815 – 15b	Ethers (0.2to 200) mass%, Alcohols (0.2 to 12.0) mass%, Olefins 10 volume%
29	Gas Oil (500 ppm Max S, 10 ppm Max. S)	Particulate Contaminants, (Total	ASTM D 6217 - 18	0 to 25 g/m ³
30	Marine Gas Oil, Fuel Oil (Fuel Oil 800 secs, Low Sulphur Fuel Oil 1500 secs, High Sulphur Fuel Oil 180 cSt, Low Sulphur Fuel Oil 180cSt, RMG 380, RMG 180)	Pour Point	ASTM D 97 – 17b / ISO 3016 - 1995	(-30°C to +20°C)

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31	Gasolene (92 & 95 Octane)	Research Octane Number (RON)	ASTM D 2699 - 18 (Reapproved 12)	88 – 101 Rating
32	Gas Oil (500 ppm Max S), Fuel Oil (Fuel Oil 800 secs, Low Sulphur Fuel Oil 1500 secs, High Sulphur Fuel Oil 180 cSt, Low Sulphur Fuel Oil 180 cSt)	Sediment by Extraction	ASTM D 473 – 07 (Reapproved 2017) ^{E1}	0.01 mass% to 0.40%
33	JET A-1, Kerosene	Smoke Point	ASTM D 1322 - 18	(15 to 30) mm
34	Gas Oil (500 ppm Max S, Marine Gas Oil), Fuel Oil (Fuel Oil 800 secs, Low Sulphur Fuel Oil 1500 secs, High Sulphur Fuel Oil 180 cSt, Low Sulphur Fuel Oil 180 cSt, RMG 380, RMG 180), Gasolene (92 Octane), JET A-1.	Sulphur Content	ASTM D 4294 – 16 ^{E1} / ISO 8754 - 2003	(0.0017 to 4.6) mass%
35	Gasolene 92 & 95 Octane, Gas Oil 10 ppm Max. S	Sulphur Content	ASTM D 5453 – 16 ^{E1}	(1.0 to 8000) mg/kg
36	Jet A - 1	Jet Fuel Thermal Oxidation Stability Test. (JFTOT)	ASTM D 3241 - 18	Tube rating, < 3 Filter Pressure differential, 0-26
37	Gas Oil (500 ppm Max S, 10 ppm Max. S)	Total Acid No.	ASTM D 664 – 18 ^{E2}	0.1 mgKOH/g – 150 mgKOH/g

Director / CEO

Sri Lanka Accreditation Board for Conformity Assessment