



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name PETROLABS INDIA PVT. LTD, 101, SUDARSAN PLAZA, HIG-575, KPHB COLONY, HYDERABAD, TELANGANA, INDIA

Accreditation Standard ISO/IEC 17025:2005

Certificate Number TC-5769 Page No. : 1 / 7

Validity 06/12/2018 to 05/12/2020 Last Amended on -

'In view of the transition deadline for ISO/IEC 17025:2017, the validity of this accreditation certificate will cease on 30.11.2020.'

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
Permanent Facility					
1	CHEMICAL-PETROLEUM AND PRODUCTS	Lubrication Oil	Boron (B)	ASTM D 6595: 2016	0 mg/kg to 1000 mg/kg
2	CHEMICAL-PETROLEUM AND PRODUCTS	Lubrication Oil	Cadmium (Cd)	ASTM D 6595: 2016	0 mg/kg to 1000 mg/kg
3	CHEMICAL-PETROLEUM AND PRODUCTS	Lubrication Oil	Silver (Ag)	ASTM D 6595: 2016	0 mg/kg to 1000 mg/kg
4	CHEMICAL-PETROLEUM AND PRODUCTS	Lubrication Oil	Vanadium (V)	ASTM D 6595: 2016	0 mg/kg to 1000 mg/kg
5	CHEMICAL-PETROLEUM AND PRODUCTS	Lubrication Oil	Acid number-Manual titration	ASTM D 974: 2014	0.1 mg KOH/g to 05 mg KOH/g
6	CHEMICAL-PETROLEUM AND PRODUCTS	Lubrication Oil	Aluminium (Al)	ASTM D 6595: 2016	0 mg/kg to 1000 mg/kg
7	CHEMICAL-PETROLEUM AND PRODUCTS	Lubrication Oil	Barium (Ba)	ASTM D 6595: 2016	0 mg/kg to 4000 mg/kg
8	CHEMICAL-PETROLEUM AND PRODUCTS	Lubrication Oil	Calcium (Ca)	ASTM D 6595: 2016	0 mg/kg to 4000 mg/kg
9	CHEMICAL-PETROLEUM AND PRODUCTS	Lubrication Oil	Chromium (Cr)	ASTM D 6595: 2016	0 mg/kg to 1000 mg/kg



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10	CHEMICAL- PETROLEUM AND PRODUCTS	Lubrication Oil	Copper (Cu)	ASTM D 6595: 2016	0 mg/kg to 1000 mg/kg
11	CHEMICAL- PETROLEUM AND PRODUCTS	Lubrication Oil	Density	ASTM D1298-12 b: 2012	0.65 g/l to 1.1 g/l
12	CHEMICAL- PETROLEUM AND PRODUCTS	Lubrication Oil	Flash Point	ASTM D92: 2016	120 °C to 320 °C
13	CHEMICAL- PETROLEUM AND PRODUCTS	Lubrication Oil	Insoluble Pentane	ASTM D 893: 2014	0 % to 15 %
14	CHEMICAL- PETROLEUM AND PRODUCTS	Lubrication Oil	Insoluble Toluene	ASTM D 893: 2014	0 % to 15 %
15	CHEMICAL- PETROLEUM AND PRODUCTS	Lubrication Oil	Iron (Fe)	ASTM D 6595: 2016	0 mg/kg to 1000 mg/kg
16	CHEMICAL- PETROLEUM AND PRODUCTS	Lubrication Oil	Kinematic Viscosity at 40 °C	ASTM D 445: 2015	10 cSt to 1200 cSt
17	CHEMICAL- PETROLEUM AND PRODUCTS	Lubrication Oil	Lead (Pb)	ASTM D 6595: 2016	0 mg/kg to 1000 mg/kg
18	CHEMICAL- PETROLEUM AND PRODUCTS	Lubrication Oil	Magnesium (Mg)	ASTM D 6595: 2016	0 mg/kg to 1000 mg/kg



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19	CHEMICAL- PETROLEUM AND PRODUCTS	Lubrication Oil	Manganese (Mn)	ASTM D 6595: 2016	0 mg/kg to 1000 mg/kg
20	CHEMICAL- PETROLEUM AND PRODUCTS	Lubrication Oil	Molybdenum (Mo)	ASTM D 6595: 2016	0 mg/kg to 1000 mg/kg
21	CHEMICAL- PETROLEUM AND PRODUCTS	Lubrication Oil	Nickel (Ni)	ASTM D 6595: 2016	0 mg/kg to 1000 mg/kg
22	CHEMICAL- PETROLEUM AND PRODUCTS	Lubrication Oil	Potassium (K)	ASTM D 6595: 2016	0 mg/kg to 1000 mg/kg
23	CHEMICAL- PETROLEUM AND PRODUCTS	Lubrication Oil	Silicon (Si)	ASTM D 6595: 2016	0 mg/kg to 1000 mg/kg
24	CHEMICAL- PETROLEUM AND PRODUCTS	Lubrication Oil	Sodium (Na)	ASTM D 6595: 2016	0 mg/kg to 1000 mg/kg
25	CHEMICAL- PETROLEUM AND PRODUCTS	Lubrication Oil	Tin (Sn)	ASTM D 6595: 2016	0 mg/kg to 1000 mg/kg
26	CHEMICAL- PETROLEUM AND PRODUCTS	Lubrication Oil	Titanium (Ti)	ASTM D 6595: 2016	0 mg/kg to 1000 mg/kg
27	CHEMICAL- PETROLEUM AND PRODUCTS	Lubrication Oil	Total Acid Number (TAN)	ASTM D 664: 2011	0.1 mg KOH/g to 5 mg KOH/g



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28	CHEMICAL-PETROLEUM AND PRODUCTS	Lubrication Oil	Total Base Number (TBN)	ASTM D 4739: 2011	2 mg KOH/g to 50 mg KOH/g
29	CHEMICAL-PETROLEUM AND PRODUCTS	Lubrication Oil	Water by karl Fisher Apparatus	ASTM D 1744: 2013	10 mg/kg to 50000 mg/kg
30	CHEMICAL-PETROLEUM AND PRODUCTS	Lubrication Oil	Zinc (Zn)	ASTM D 6595: 2016	0 mg/kg to 5000 mg/kg
31	CHEMICAL-PETROLEUM AND PRODUCTS	Lubrication Oil	Colour	ASTM D 1500: 2012	Qualitative
32	CHEMICAL-PETROLEUM AND PRODUCTS	Lubrication Oil	Kinematic Viscosity at 100 °C	ASTM D 445: 2015	1 cSt to 200 cSt
33	CHEMICAL-PETROLEUM AND PRODUCTS	Lubrication Oil	Phosphorus (P)	ASTM D 6595: 2016	0 mg/kg to 5000 mg/kg
34	CHEMICAL-PETROLEUM AND PRODUCTS	Lubrication Oil	Soot	ASTM D 768: 2011	0 % to 5 %
35	CHEMICAL-PETROLEUM AND PRODUCTS	Lubrication Oil	Viscosity Index	ASTM D 2270 : 1993 RA: 1998	Qualitative
36	CHEMICAL-PETROLEUM AND PRODUCTS	Transformer Oil (Mineral Insulating Oil)	Dissolved Gas Analysis	IS:9434:1992 RA: 2008	0 mg/kg to 5000 mg/kg



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37	CHEMICAL- PETROLEUM AND PRODUCTS	Transformer Oil (Mineral Insulating Oil)	Flash Point	IS 1448 (Part 21): 2012	100 °C to 360 °C
38	CHEMICAL- PETROLEUM AND PRODUCTS	Transformer Oil (Mineral Insulating Oil)	Kinematic viscosity at 27 °C	IS 1448 (Part 25):1976 RA: 2007	1.0 cSt to 50 cSt
39	CHEMICAL- PETROLEUM AND PRODUCTS	Transformer Oil (Mineral Insulating Oil)	Neutralization value	IS 1448 (Part 2) : 2007	0 mg KOH/g to 10.0 mg KOH/g
40	CHEMICAL- PETROLEUM AND PRODUCTS	Transformer Oil (Mineral Insulating Oil)	Sediments & Sludge	Annex A of IS:1866: 2017	0 % by Wt to 1.0 % by Wt
41	CHEMICAL- PETROLEUM AND PRODUCTS	Transformer Oil (Mineral Insulating Oil)	Water Content	IS:13567:1992 RA: 2008	0 mg/kg to 500 mg/kg
42	CHEMICAL- PETROLEUM AND PRODUCTS	Transformer Oil (Mineral Insulating Oil)	Appearance	IS 335:1993 RA: 2010	Qualitative
43	CHEMICAL- PETROLEUM AND PRODUCTS	Transformer Oil (Mineral Insulating Oil)	Dissolved Gas Analysis - Methane	IS:9434:1992 RA: 2008	1 mg/kg to 10000 mg/kg
44	CHEMICAL- PETROLEUM AND PRODUCTS	Transformer Oil (Mineral Insulating Oil)	Dissolved Gas Analysis- Acetylene	IS:9434:1992 RA: 2008	1 mg/kg to 10000 mg/kg
45	CHEMICAL- PETROLEUM AND PRODUCTS	Transformer Oil (Mineral Insulating Oil)	Dissolved Gas Analysis- Carbon monoxide	IS:9434:1992 RA: 2008	100 mg/kg to 10000 mg/kg



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46	CHEMICAL- PETROLEUM AND PRODUCTS	Transformer Oil (Mineral Insulating Oil)	Dissolved Gas Analysis- Carbondioxide	IS:9434:1992 RA: 2008	100 mg/kg to 10000 mg/kg
47	CHEMICAL- PETROLEUM AND PRODUCTS	Transformer Oil (Mineral Insulating Oil)	Dissolved Gas Analysis- Ethane	IS:9434:1992 RA: 2008	1 mg/kg to 10000 mg/kg
48	CHEMICAL- PETROLEUM AND PRODUCTS	Transformer Oil (Mineral Insulating Oil)	Dissolved Gas Analysis- Ethylene	IS:9434:1992 RA: 2008	1 mg/kg to 10000 mg/kg
49	CHEMICAL- PETROLEUM AND PRODUCTS	Transformer Oil (Mineral Insulating Oil)	Dissolved Gas Analysis- hydrogen	IS:9434:1992 RA: 2008	1 mg/kg to 10000 mg/kg
50	CHEMICAL- PETROLEUM AND PRODUCTS	Transformer Oil (Mineral Insulating Oil)	Dissolved Gas Analysis- Nitrogen	IS:9434:1992 RA: 2008	1000 mg/kg to 100000 mg/kg
51	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil (Mineral Insulating Oil)	Breakdown Voltage Test	IS:6792: 2017	1 kV to 100 kV
52	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil (Mineral Insulating Oil)	Interfacial Tension	IS 6104: 2016	0 mN/m to 72 mN/m
53	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil (Mineral Insulating Oil)	Specific Resistivity Test	IS:6103-1971 RA: 2016	1 [^] 9 ohm-cm to 10 [^] 15 Ohm-cm



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54	ELECTRICAL-INSULATING MATERIALS & INSULATORS	Transformer Oil (Mineral Insulating Oil)	Tan Delta Test @ 90°C	IS:6262-1971 RA: 2016	0.000001 to 1