National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : QUALITY CONTROL LABORATORY, HINDUSTAN PETROLEUM CORPORATION LTD., SILVASSA LUBE PLANT, VILLAGE KHERDI, KHANVEL-UDHVA ROAD, SILVASSA, DADRA AND NAGAR HAVELI, INDIA

Accreditation Standard ISO/IEC 17025:2017

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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
Permanent Facility				
1	CHEMICAL- LUBRICANTS	Lubricating oil	The phosphorous content in lubricating oil by ICP	ASTM D 4951
2	CHEMICAL- LUBRICANTS	Automotive/ Specialties Lubricants	ACIDITY INORGANIC	IP 182
3	CHEMICAL- LUBRICANTS	Automotive/ Specialties Lubricants	ACIDITY TOTAL	ASTM D 664
4	CHEMICAL- LUBRICANTS	Automotive/ Specialties Lubricants	ACIDITY TOTAL	ASTM D 974
5	CHEMICAL- LUBRICANTS	Automotive/ Specialties Lubricants	ACIDITY TOTAL	IS 1448 P 2
6	CHEMICAL- LUBRICANTS	Automotive/ Specialties Lubricants	Air Release Value @ 50°C	ASTM D 3427
7	CHEMICAL- LUBRICANTS	Automotive/ Specialties Lubricants	ANILINE POINT	ASTM D611
8	CHEMICAL- LUBRICANTS	Automotive/ Specialties Lubricants	ANILINE POINT	IS 1448 P 3
9	CHEMICAL- LUBRICANTS	Automotive/ Specialties Lubricants	ASH CONTENT	ASTM D 482
10	CHEMICAL- LUBRICANTS	Automotive/ Specialties Lubricants	ASH CONTENT	IS 1448 P 4 (SEC I)
11	CHEMICAL- LUBRICANTS	Automotive/ Specialties Lubricants	ASH SULPHATED	ASTM D 874
12	CHEMICAL- LUBRICANTS	Automotive/ Specialties Lubricants	ASH SULPHATED	IS 1448 (P 4/Sec 2)
13	CHEMICAL- LUBRICANTS	Automotive/ Specialties Lubricants	CALCIUM CONTENT	ASTM D 6443
14	CHEMICAL- LUBRICANTS	Automotive/ Specialties Lubricants	CCS AT -10 °C TO -35 °C	ASTM D 5293
15	CHEMICAL- LUBRICANTS	Automotive/ Specialties Lubricants	COLOUR ASTM	ASTM D 1500
16	CHEMICAL- LUBRICANTS	Automotive/ Specialties Lubricants	COLOUR ASTM	IS 1448 P 12
17	CHEMICAL- LUBRICANTS	Automotive/ Specialties Lubricants	COPPER STRIP CORROSION TEST (at 100 °C/ 121 °C/ 150 °C)	ASTM D 130
18	CHEMICAL- LUBRICANTS	Automotive/ Specialties Lubricants	COPPER STRIP CORROSION TEST (at 100 °C/ 121 °C/ 150 °C)	IS 1448 P 15
19	CHEMICAL- LUBRICANTS	Automotive/ Specialties Lubricants	DENSITY BY STABINGER VISCOSMETER	ASTM D 4052
20	CHEMICAL- LUBRICANTS	Automotive/ Specialties Lubricants	DENSITY MANUAL @ 15 °C & 29.5 °C	IS 1448 P 16
21	CHEMICAL- LUBRICANTS	Automotive/ Specialties Lubricants	DENSITY MANUAL @ 15 °C / 29.5 °C	ASTM D 1298
22	CHEMICAL- LUBRICANTS	Automotive/ Specialties Lubricants	Dielectric Strength (BDV)	IP 295
23	CHEMICAL- LUBRICANTS	Automotive/ Specialties Lubricants	EMULSION CHARACTERISTIC AT 54/82 DEG.C.	ASTM D 1401

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24	CHEMICAL- LUBRICANTS	Automotive/ Specialties Lubricants	EMULSION CHARACTERISTIC AT 54/82 DEG.C.	IS 1448 P 91
25	CHEMICAL- LUBRICANTS	Automotive/ Specialties Lubricants	EMULSION STABILITY	IS 1448 P:98
26	CHEMICAL- LUBRICANTS	Automotive/ Specialties Lubricants	EVAPORATION LOSS	IS 4543
27	CHEMICAL- LUBRICANTS	Automotive/ Specialties Lubricants	FLASH POINT COC	ASTM D 92
28	CHEMICAL- LUBRICANTS	Automotive/ Specialties Lubricants	FLASH POINT COC	IS 1448 P 69
29	CHEMICAL- LUBRICANTS	Automotive/ Specialties Lubricants	FLASH POINT PMCC	ASTM D 93
30	CHEMICAL- LUBRICANTS	Automotive/ Specialties Lubricants	FLASH POINT PMCC	IS 1448 P 21
31	CHEMICAL- LUBRICANTS	Automotive/ Specialties Lubricants	FOAMING TEST TENDENCY & STABILITY SEQUENCE I	ASTM D 892
32	CHEMICAL- LUBRICANTS	Automotive/ Specialties Lubricants	FOAMING TEST TENDENCY & STABILITY SEQUENCE I	IS 1448 P 67
33	CHEMICAL- LUBRICANTS	Automotive/ Specialties Lubricants	FOAMING TEST TENDENCY & STABILITY SEQUENCE II	ASTM D 892
34	CHEMICAL- LUBRICANTS	Automotive/ Specialties Lubricants	FOAMING TEST TENDENCY & STABILITY SEQUENCE II	IS 1448 P 67
35	CHEMICAL- LUBRICANTS	Automotive/ Specialties Lubricants	FOAMING TEST TENDENCY & STABILITY SEQUENCE III	ASTM D 892
36	CHEMICAL- LUBRICANTS	Automotive/ Specialties Lubricants	FOAMING TEST TENDENCY & STABILITY SEQUENCE III	IS 1448 P 67
37	CHEMICAL- LUBRICANTS	Automotive/ Specialties Lubricants	KINEMATIC VISCOSITY AT 100 °C	ASTM D 445
38	CHEMICAL- LUBRICANTS	Automotive/ Specialties Lubricants	KINEMATIC VISCOSITY AT 100 °C	ASTM D 7042
39	CHEMICAL- LUBRICANTS	Automotive/ Specialties Lubricants	KINEMATIC VISCOSITY AT 100 °C	IS 1447 P 25
40	CHEMICAL- LUBRICANTS	Automotive/ Specialties Lubricants	KINEMATIC VISCOSITY AT 40 °C	ASTM D 445
41	CHEMICAL- LUBRICANTS	Automotive/ Specialties Lubricants	KINEMATIC VISCOSITY AT 40 °C	ASTM D 7042
42	CHEMICAL- LUBRICANTS	Automotive/ Specialties Lubricants	KINEMATIC VISCOSITY AT 40 °C	IS 1448 P 25
43	CHEMICAL- LUBRICANTS	Automotive/ Specialties Lubricants	POUR POINT	ASTM D 97
44	CHEMICAL- LUBRICANTS	Automotive/ Specialties Lubricants	POUR POINT	IS 1448 P 10 SEC1/SEC 2
45	CHEMICAL- LUBRICANTS	Automotive/ Specialties Lubricants	RUST TEST	ASTM D 665
46	CHEMICAL- LUBRICANTS	Automotive/ Specialties Lubricants	RUST TEST	IS 1448 P 96
47	CHEMICAL- LUBRICANTS	Automotive/ Specialties Lubricants	SAPONIFICATION VALUE	ASTM D 94

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48	CHEMICAL- LUBRICANTS	Automotive/ Specialties Lubricants	SAPONIFICATION VALUE	IS 1448 P 55
49	CHEMICAL- LUBRICANTS	Automotive/ Specialties Lubricants	Thermal Stability @ & 0 °C & 50°C	IS 1448 P:100
50	CHEMICAL- LUBRICANTS	Automotive/ Specialties Lubricants	TOTAL BASE NUMBER	ASTM D 2896
51	CHEMICAL- LUBRICANTS	Automotive/ Specialties Lubricants	TOTAL BASE NUMBER	IS 1448 P 86
52	CHEMICAL- LUBRICANTS	Automotive/ Specialties Lubricants	VISCOSITY INDEX	ASTM D 2270
53	CHEMICAL- LUBRICANTS	Automotive/ Specialties Lubricants	VISCOSITY INDEX	IS 1448 P 56
54	CHEMICAL- LUBRICANTS	Automotive/ Specialties Lubricants	WATER CONTENT	ASTM D 95
55	CHEMICAL- LUBRICANTS	Automotive/ Specialties Lubricants	WATER CONTENT	IS 1448 P 40
56	CHEMICAL- LUBRICANTS	Automotive/ Specialties Lubricants	WATER CONTENT IN PPM	ASTM D 6304
57	CHEMICAL- LUBRICANTS	Automotive/ Specialties Lubricants	ZINC CONTENT	ASTM D 6443
58	CHEMICAL- LUBRICANTS	Automotive/ Specialties Lubricants	ACIDITY INORGANIC	IS 1448 P 2
59	CHEMICAL- LUBRICANTS	Automotive/ Specialties Lubricants	Dielectric Strength (BDV)	ASTM D 877
60	CHEMICAL- LUBRICANTS	Automotive/ Specialties Lubricants	PHOSPHORUS CONTENT	ASTM D 6443
61	CHEMICAL- LUBRICANTS	lubricant & Grease	Appearance	HP/WI/67
62	CHEMICAL- LUBRICANTS	LUBRICATING GREASES	CONSISTENCY UNWORKED	ASTM D 217
63	CHEMICAL- LUBRICANTS	LUBRICATING GREASES	CONSISTENCY UNWORKED	IS 1448 P 60
64	CHEMICAL- LUBRICANTS	LUBRICATING GREASES	CONSISTENCY WORKED 1 LAC STROKES	ASTM D 217
65	CHEMICAL- LUBRICANTS	LUBRICATING GREASES	CONSISTENCY WORKED 1 LAC STROKES	IS 1448 P 60
66	CHEMICAL- LUBRICANTS	LUBRICATING GREASES	CONSISTENCY WORKED 60 STROKES	ASTM D 217
67	CHEMICAL- LUBRICANTS	LUBRICATING GREASES	CONSISTENCY WORKED 60 STROKES	IS 1448 P 60
68	CHEMICAL- LUBRICANTS	LUBRICATING GREASES	COPPER CORROSION TEST @ 100 DEG.C./24 HOURS	ASTM D 4048
69	CHEMICAL- LUBRICANTS	LUBRICATING GREASES	COPPER CORROSION TEST @ 100 DEG.C./24 HOURS	IS 1448 P 51
70	CHEMICAL- LUBRICANTS	LUBRICATING GREASES	DROP POINT	ASTM D 566
71	CHEMICAL- LUBRICANTS	LUBRICATING GREASES	DROP POINT	IS 1448 P 52
72	CHEMICAL- LUBRICANTS	LUBRICATING GREASES	FREE ALKALINITY AS LiOH	ASTM D 128
73	CHEMICAL- LUBRICANTS	LUBRICATING GREASES	FREE ALKALINITY AS LiOH	IS 1448 P 53

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74	CHEMICAL- LUBRICANTS	LUBRICATING GREASES	FREE ORGANIC ACIDITY AS OLEIC ACID	ASTM D 128
75	CHEMICAL- LUBRICANTS	LUBRICATING GREASES	FREE ORGANIC ACIDITY AS OLEIC ACID	IS 1448 P 53
76	CHEMICAL- LUBRICANTS	LUBRICATING GREASES	HEAT STABILITY AT 100 DEG.C/ 30 HOURS	ASTM D 6184
77	CHEMICAL- LUBRICANTS	LUBRICATING GREASES	HEAT STABILITY AT 100 DEG.C/ 30 HOURS	IS 1448 P 89
78	CHEMICAL- LUBRICANTS	Lubricating oil	Sulphur content	ASTM D 6443-14 e1
79	CHEMICAL- LUBRICANTS	Lubricating Oil	Zinc in Lubricating oils by ICP-OES	D4951 - 14
80	CHEMICAL- PETROLEUM AND PRODUCTS	coolant	Visual Color	HP/WI/66
81	CHEMICAL- PETROLEUM AND PRODUCTS	COOLANTS	BOILING POINT	IS 5759 - Annex E
82	CHEMICAL- PETROLEUM AND PRODUCTS	COOLANTS	BOILING POINT	JIS K 2234:
83	CHEMICAL- PETROLEUM AND PRODUCTS	COOLANTS	FOAMING PROPERTY	IS 5759 ANNEX C
84	CHEMICAL- PETROLEUM AND PRODUCTS	COOLANTS	FOAMING PROPERTY	JIS K 2234:
85	CHEMICAL- PETROLEUM AND PRODUCTS	COOLANTS	FREEZING POINT ORIGINAL LIQUID , 30% & 50%	IS 5759 ANNEX - J
86	CHEMICAL- PETROLEUM AND PRODUCTS	COOLANTS	FREEZING POINT ORIGINAL LIQUID , 30% & 50%	JIS K 2234
87	CHEMICAL- PETROLEUM AND PRODUCTS	COOLANTS	pH VALUE, ORIGINAL, 3%, 30% & 50%	IS 5759 ANNEX- G
88	CHEMICAL- PETROLEUM AND PRODUCTS	COOLANTS	pH VALUE, ORIGINAL, 3%, 30% & 50%	JIS K 2234
89	CHEMICAL- PETROLEUM AND PRODUCTS	COOLANTS	SPECIFIC GRAVITY @ 20 Deg. C	JIS K 2234
90	CHEMICAL- PETROLEUM AND PRODUCTS	COOLANTS	SPECIFIC GRAVITY @ 20 Deg. C.	IS 5759 ANNEX- D
91	CHEMICAL- PETROLEUM AND PRODUCTS	COOLANTS	WATER CONTENT	IS 5759 ANNEX- F
92	CHEMICAL- PETROLEUM AND PRODUCTS	COOLANTS	WATER CONTENT	JIS K 2234

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93	CHEMICAL- PETROLEUM AND PRODUCTS	DEF	K in DEF	SO 22241-2 (E) ANNEX I
94	CHEMICAL- PETROLEUM AND PRODUCTS	DEF	Phosphate in DEF	ISO 22241-2 (E) ANNEX I
95	CHEMICAL- PETROLEUM AND PRODUCTS	DIESEL EXHAUST FLUID	ALDEHYDES	ISO 22241-2 ANNEX-F
96	CHEMICAL- PETROLEUM AND PRODUCTS	DIESEL EXHAUST FLUID	ALKALINITY AS NH3	ISO 22241-2 ANNEX-D
97	CHEMICAL- PETROLEUM AND PRODUCTS	DIESEL EXHAUST FLUID	Aluminium in DEF	ISO 22241-2 ANNEX I
98	CHEMICAL- PETROLEUM AND PRODUCTS	DIESEL EXHAUST FLUID	BIURET	ISO 22241-2 ANNEX-E
99	CHEMICAL- PETROLEUM AND PRODUCTS	DIESEL EXHAUST FLUID	Calcium in DEF	ISO 22241-2 (E) ANNEX I
100	CHEMICAL- PETROLEUM AND PRODUCTS	DIESEL EXHAUST FLUID	Chromium in DEF	ISO 22241-2 (E) ANNEX I
101	CHEMICAL- PETROLEUM AND PRODUCTS	DIESEL EXHAUST FLUID	Copper in DEF	ISO 22241-2 (E) ANNEX I
102	CHEMICAL- PETROLEUM AND PRODUCTS	DIESEL EXHAUST FLUID	DENSITY @ 20 Deg. C	ISO 3675
103	CHEMICAL- PETROLEUM AND PRODUCTS	DIESEL EXHAUST FLUID	INSOLUBLE MATTER	ISO 22241-2 ANNEX- G
104	CHEMICAL- PETROLEUM AND PRODUCTS	DIESEL EXHAUST FLUID	Iron in DEF	ISO 22241-2 ANNEX I
105	CHEMICAL- PETROLEUM AND PRODUCTS	DIESEL EXHAUST FLUID	Magnesium in DEF	ISO 22241-2 (E) ANNEX I
106	CHEMICAL- PETROLEUM AND PRODUCTS	DIESEL EXHAUST FLUID	Nickel in DEF	ISO 22241-2 (E) ANNEX I
107	CHEMICAL- PETROLEUM AND PRODUCTS	DIESEL EXHAUST FLUID	REFRACTIVE INDEX @ 20 Deg. C	ISO 22241-2 ANNEX- C
108	CHEMICAL- PETROLEUM AND PRODUCTS	DIESEL EXHAUST FLUID	Sodium in DEF	ISO 22241-2 (E) ANNEX I
109	CHEMICAL- PETROLEUM AND PRODUCTS	DIESEL EXHAUST FLUID	UREA CONTENT	ISO 22241-2 ANNEX -C
110	CHEMICAL- PETROLEUM AND PRODUCTS	DIESEL EXHAUST FLUID	Zinc in DEF	ISO 22241-2 (E) ANNEX I
111	CHEMICAL- PETROLEUM AND PRODUCTS	Lubricant, Grease, Coolant & DEF	Appearance	HP/WI/67