National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : QUALITY ASSURANCE LABORATORY, WADILUBE, BHARAT PETROLEUM CORPORATION LIMITED, LUBE OIL BLENDING PLANT, WADILUBE INSTALLATION, MALLET ROAD, WADIBUNDER, MUMBAI, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-11437 **Page No** 1 of 3

Validity 14/03/2023 to 13/03/2025 **Last Amended on** -

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	Brake Fluid	Density at 29.5°C	ASTM D4052
2	CHEMICAL- LUBRICANTS	Brake Fluid	Equilibrium Reflux Boiling Point	IS 8654, Annex A
3	CHEMICAL- LUBRICANTS	Brake Fluid	Kinematic Viscosity at 100°C	ASTM D445
4	CHEMICAL- LUBRICANTS	Brake Fluid	pH value	IS 8654, Annex C
5	CHEMICAL- LUBRICANTS	Brake Fluid	pH Value	JSS 9150-15 (Annex B)
6	CHEMICAL- LUBRICANTS	Grease	Consistency of Worked Grease at 25 ± 0.5°C	IS 1448 (Part 60)
7	CHEMICAL- LUBRICANTS	Grease	Consistency of Worked Grease at 25 ± 5°C	ASTM D217
8	CHEMICAL- LUBRICANTS	Grease	Drop Point	ASTM D2265
9	CHEMICAL- LUBRICANTS	Grease	Drop Point	IS 1448 (Part 52)
10	CHEMICAL- LUBRICANTS	Insulating Oil	Breakdown Voltage - New Unfiltered Oil kV (rms)	IS 6792
11	CHEMICAL- LUBRICANTS	Insulating Oil	Corrosive Sulphur by Silver Strip	DIN 51353
12	CHEMICAL- LUBRICANTS	Insulating Oil	Density at 20°C	ASTM D4052
13	CHEMICAL- LUBRICANTS	Insulating Oil	Density at 29.5°C	ASTM D4052
14	CHEMICAL- LUBRICANTS	Insulating Oil	Dielectric Dissipation Factor (Tan d)	IS 16086
15	CHEMICAL- LUBRICANTS	Insulating Oil	Dielectric Dissipation Factor (Tan d)	IS 6262
16	CHEMICAL- LUBRICANTS	Insulating Oil	Interfacial Tension at 27°C	ASTM D971
17	CHEMICAL- LUBRICANTS	Insulating Oil	Interfacial Tension at 27°C	IS 6104
18	CHEMICAL- LUBRICANTS	Insulating Oil	Kinematic Viscosity at 0°C	ASTM D7042
19	CHEMICAL- LUBRICANTS	Insulating Oil	Kinematic Viscosity at 40°C	ASTM D445
20	CHEMICAL- LUBRICANTS	Insulating Oil	Oxidation Stability	IS 335, Annex C
21	CHEMICAL- LUBRICANTS	Insulating Oil	Total Sulphur Content	ASTM D4294
22	CHEMICAL- LUBRICANTS	Lubricating Oil	Appearance	Visual, SOP-09 Issue No.01 Issue Date 01.12.2022
23	CHEMICAL- LUBRICANTS	Lubricating Oil	Cold Cranking Simulator at -35°C	ASTM D5293
24	CHEMICAL- LUBRICANTS	Lubricating Oil	Colour	Visual, SOP-11 Issue No. 01 Issue Date: 01.12.2022

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25	CHEMICAL- LUBRICANTS	Lubricating Oil	Colour ASTM	ASTM D1500
26	CHEMICAL- LUBRICANTS	Lubricating Oil	Colour ASTM	IS 1448 (Part 12)
27	CHEMICAL- LUBRICANTS	Lubricating OIl	Colour Saybolt	ASTM D156
28	CHEMICAL- LUBRICANTS	Lubricating Oil	Colour Saybolt	IS 1448 (Part 14)
29	CHEMICAL- LUBRICANTS	Lubricating Oil	Crackle Test	SOP-10 Issue No. 01 Issue Date: 01.12.2022
30	CHEMICAL- LUBRICANTS	Lubricating Oil	Cu Strip Corrosion	ASTM D130
31	CHEMICAL- LUBRICANTS	Lubricating Oil	Cu Strip Corrosion	IS 1448 (Part 15)
32	CHEMICAL- LUBRICANTS	Lubricating Oil	Density at 15°C	ASTM D4052
33	CHEMICAL- LUBRICANTS	Lubricating Oil	Density at 20°C	ASTM D4052
34	CHEMICAL- LUBRICANTS	Lubricating Oil	Density at 29.5°C	ASTM D4052
35	CHEMICAL- LUBRICANTS	Lubricating Oil	Emulsion Test	IS 1448 (Part 98)
36	CHEMICAL- LUBRICANTS	Lubricating Oil	Flash Point (Abel)	IS 1448 (Part 20)
37	CHEMICAL- LUBRICANTS	Lubricating Oil	Flash Point (COC)	ASTM D92
38	CHEMICAL- LUBRICANTS	Lubricating Oil	Flash Point (COC)	IS 1448 (Part 69)
39	CHEMICAL- LUBRICANTS	Lubricating Oil	Flash Point (Pensky Marten)	ASTM D93
40	CHEMICAL- LUBRICANTS	Lubricating Oil	Flash Point (Pensky Marten)	ASTM D93
41	CHEMICAL- LUBRICANTS	Lubricating Oil	Foaming Characteristics Stability	ASTM D892
42	CHEMICAL- LUBRICANTS	Lubricating Oil	Foaming Characteristics Tendency	ASTM D892
43	CHEMICAL- LUBRICANTS	Lubricating Oil	Frothing Test	IS 1448 (Part 99)
44	CHEMICAL- LUBRICANTS	Lubricating Oil	Kinematic Viscosity at 100°C	ASTM D445
45	CHEMICAL- LUBRICANTS	Lubricating Oil	Kinematic Viscosity at 100°C	ASTM D7042
46	CHEMICAL- LUBRICANTS	Lubricating Oil	Kinematic Viscosity at 100°C	IS 1448 (Part 25)
47	CHEMICAL- LUBRICANTS	Lubricating Oil	Kinematic Viscosity at 37.8°C	ASTM D7042
48	CHEMICAL- LUBRICANTS	Lubricating Oil	Kinematic Viscosity at 40°C	ASTM D445
49	CHEMICAL- LUBRICANTS	Lubricating Oil	Kinematic Viscosity at 40°C	ASTM D7042
50	CHEMICAL- LUBRICANTS	Lubricating Oil	Kinematic Viscosity at 40°C	IS 1148 (Part 25)
51	CHEMICAL- LUBRICANTS	Lubricating Oil	pH Value	IS 8654, Annex C
52	CHEMICAL- LUBRICANTS	Lubricating Oil	Pour Point	ASTM D5949
53	CHEMICAL- LUBRICANTS	Lubricating Oil	Pour Point	ASTM D97

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54	CHEMICAL- LUBRICANTS	Lubricating Oil	Pour Point	IS 1448 (Part 10, Section 2)
55	CHEMICAL- LUBRICANTS	Lubricating Oil	Total Acid Number (TAN)	ASTM D664
56	CHEMICAL- LUBRICANTS	Lubricating Oil	Total Acid Number (TAN)	IS 1448 (Part 1, Section 1)
57	CHEMICAL- LUBRICANTS	Lubricating Oil	Total Base Number (TBN)	IP 276
58	CHEMICAL- LUBRICANTS	Lubricating Oil	Total Base Number (TBN)	ASTM D2896
59	CHEMICAL- LUBRICANTS	Lubricating Oil	Total Base Number (TBN)	IS 1448 (part 86)
60	CHEMICAL- LUBRICANTS	Lubricating Oil	Total Base Number (TBN)	ISO 3771
61	CHEMICAL- LUBRICANTS	Lubricating Oil	Ultra Violet Absorption Test, extinction	IS 7299
62	CHEMICAL- LUBRICANTS	Lubricating Oil	Viscosity Index	ASTM D2270
63	CHEMICAL- LUBRICANTS	Lubricating Oil	Viscosity index	IS 1448 (Part 56)
64	CHEMICAL- LUBRICANTS	Lubricating Oil	Water Content by Karl Fischer Titration	IEC 60814
65	CHEMICAL- LUBRICANTS	Lubricating Oil	Water Content by Karl Fischer Titration	IS 13567
66	CHEMICAL- LUBRICANTS	Lubricating Oil	Water Separability	ASTM D1401
67	CHEMICAL- LUBRICANTS	Lubricating Oil	Yield Stress & Apparent Viscosity (MRV)	ASTM D4684