National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : SAVITA OIL TECHNOLOGIES LIMITED, SURVEY NO 140/1, KUVAPADA, VILLAGE SILLI, POST KILVAN, SILVASSA, DADRA AND NAGAR HAVELI, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-6040 **Page No** 1 of 5

Validity 16/10/2021 to 15/10/2023 **Last Amended on** 31/08/2022

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	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	2-Furfural & related compound content	IEC 61198
2	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	2-Furfural and related compound content	IS 15668: 2006, RA
3	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Ageing characteristics after accelerated ageing (open beaker method with copper catalyst)- Resistance at 27°C	IS 12177: 1987, RA
4	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Ageing characteristics after accelerated ageing (open beaker method with copper catalyst)- Resistance at 90°C.	IS 12177 :1987 RA
5	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Ageing characteristics after accelerated ageing (open beaker method with copper catalyst)- Tan delta at 90°C.	IS 12177: 1987, RA
6	ELECTRICAL- INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	Ageing characteristics after accelerated ageing (open beaker method with copper catalyst)-Total Acidity.	IS12177 / IS 1448(PART 2):1987 RA
7	ELECTRICAL- INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	Ageing characteristics after accelerated ageing (open beaker method with copper catalyst)-Total Sludge.	IS12177:1987:RA
8	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Appearance	IS 335: 2018, IEC 60296 ,2012
9	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Carbon Type Analysis of Insulating oil by FTIR - Aromatic carbon (CA)	IEC 60590
10	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Carbon Type Analysis of Insulating oil by FTIR - Aromatic carbon (CA)	IS 13155: 1991, RA
11	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Carbon Type Analysis of Insulating oil by FTIR - Naphthenic carbon (CN)	IS 13155:1991, RA
12	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Carbon Type Analysis of Insulating oil by FTIR - Paraffinic carbon(CP)	IS 13155: 1991, RA

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13	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	Colour	ISO 2049
14	ELECTRICAL- INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	Corrosive Sulphur	ASTM D 1275 B
15	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Corrosive Sulphur	DIN 51353
16	ELECTRICAL- INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	DBDS	IEC 62697-1
17	ELECTRICAL- INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	DBDS	IS 16497(Part-1):2017 RA
18	ELECTRICAL- INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	Density at 20 deg	ISO 3675
19	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Density at 29.5 degC & 20 degC	IS 1448 (Part-16): 2014, RA
20	ELECTRICAL- INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	Determination of the lightning impulse breakdown voltage of insulating liquids.	IEC 60897
21	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Di electric dissipation factor (Tan delta) at 90 degC	IS 6262:1971, RA
22	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Di electric dissipation factor (Tan Delta) at 90°C	IEC 60247
23	ELECTRICAL- INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	Dielectric Breakdown voltage of Insulating liquids under Impulse conditions.	ASTM D 3300
24	ELECTRICAL- INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	Electric strength (Break Down Voltage)	IEC60156
25	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Electric Strength (Break Down Voltage)	IS 6792:2017, RA
26	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Flash Point PMCC	IS 1448 (Part 21)

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27	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Flash Point, PMCC	ISO 2719
28	ELECTRICAL- INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	Interfacial tension	ASTM D971
29	ELECTRICAL- INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	Interfacial tension	EN14210
30	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	Interfacial Tension	IEC62961
31	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Interfacial Tension	ISO 6295
32	ELECTRICAL- INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	Kinematic Viscosity @ 27 deg.	IS1448(PART:25):1976 RA
33	ELECTRICAL- INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	Kinematic Viscosity at 0°C	IS1448(PART-25):1976 RA
34	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Kinematic Viscosity at 100°C	ISO 3104
35	ELECTRICAL- INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	Kinematic Viscosity at -20°C	ISO3104
36	ELECTRICAL- INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	Kinematic Viscosity at -30°C	IS1448(PART25):1976 RA
37	ELECTRICAL- INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	Kinematic Viscosity at -30°C	ISO3104
38	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Kinematic Viscosity at 40°C	IS 1448 (Part-25):1976, RA
39	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Kinematic Viscosity at 40°C	ISO 3104
40	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Metal Passivator	IEC 60666

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41	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Metal Passivator	IS 13631
42	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Neutralization Value / Acidity	IEC 62021-1
43	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Neutralization Value/Acidity	IEC 62021-2
44	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Oxidation Stability - Dielectric Dissipation factor at 90 °C	IEC 61125
45	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Oxidation Stability - Dielectric Dissipation Factor at 90°C	IS 12422
46	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Oxidation Stability - Total acidity	IS 12422: 2017, RA
47	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Oxidation Stability - Total sludge,% by wt	IEC 61125
48	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Oxidation Stability - Total sludge,% by wt	IS 12422
49	ELECTRICAL- INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	Oxidation stability of inhibited Mineral Insulating oil by rotating bomb test.	ASTM D2112
50	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Oxidation Stability -Total acidity	IEC 61125
51	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	PCA Content	BS 2000 (Part 346)
52	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	PCB content	ASTM D 4059
53	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	PCB content	IEC 61619
54	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	PCB content	IS 16082: 2013, RA

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55	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Potentially Corrosive Sulphur	IEC 62535
56	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Potentially Corrosive Sulphur	IS 16310
57	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Pour Point	IS 1448 (Part 10/Sec 2): 2013, RA
58	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Pour Point	ISO 3016
59	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Presence of oxidation inhibitor	IEC 60666
60	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Presence of Oxidation inhibitor	IS 13631
61	ELECTRICAL- INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	Specific Resistance (Resistivity) at 27 °C & 90 °C	IS6103:1971 RA
62	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Specific resistance (Resistivity) at 27°C & 90°C	IEC 60247
63	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Total sulphur content	ASTM D 4294
64	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Total sulphur content	ISO 20847
65	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Water Content	IEC 60814
66	ELECTRICAL- INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	Water Content	IS 13567:2018