National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : SAVITA OIL TECHNOLOGIES LIMITED, 17/17A, THANE BELAPUR ROAD, P.O. VASHI, THANE, NAVI MUMBAI, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-7046 **Page No** 1 of 6

Validity 12/04/2022 to 11/04/2024 **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	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Tranformer oil	Flash Point	IS 1448 (Part 21)
2	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	2 - Furfural and related compound content	IEC 61198
3	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	2 - Furfural and related compound content	IS 15668
4	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	Acidity	"Withdrawn Standard" IS 1448 (Part 2)
5	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	Acidity	IEC 62021- 1
6	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	Acidity	IEC 62021-2
7	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	Antioxidant additive	IEC 60666
8	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	Antioxidant additive	IS 13631
9	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Appearance (Visual)	"Withdrawn Standard" IEC 60296
10	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Appearance (Visual)	IEC 60296
11	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Appearance (Visual)	IS 335
12	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	Aromatic carbon (CA) of Insulating oil by FTIR	IEC 60590
13	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	Aromatic carbon (CA) of Insulating oil by FTIR	IS 13155

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14	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Breakdown Voltage	IEC 60156
15	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	Breakdown Voltage	IS 6792
16	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Colour (ASTM Scale)	ISO 2049
17	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	Corrosive sulphur	ASTM D1275
18	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	Corrosive sulphur	DIN 51353
19	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	Corrosive sulphur	IEC 62535
20	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	Corrosive Sulphur	IS 16310
21	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	DBDS (dibenzyldisulfide)	IEC 62697-1
22	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	DBDS (dibenzyldisulfide)	IS 16497 (Part 1)
23	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	Density at 20 °C	ISO 3675
24	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	Density at 29.5 °C	IS 1448 (Part 16)
25	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	Density at 29.5°C	ISO 3675
26	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	Dielectric Dissipation Factor (DDF) at 90°C after Accelerated Ageing	IS 12177
27	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	Dielectric dissipation factor (DDF) at 90°C	IS 6262

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28	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	Dielectric dissipation factor (DDF) at 90°C	IEC 60247
29	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	Flash Point	ISO 2719
30	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	Interfacial tension	ASTM D971
31	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	Interfacial tension	EN 14210
32	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	Kinematic viscosity at 27°C	IS 1448 (Part 25: Sec 1)
33	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Metal passivator additives	IEC 60666
34	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Metal passivator additives	IS 13631
35	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	Naphthenic carbon (CN) of Insulating oil by FTIR	IS 13155
36	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	Negative Impulse	ASTM D3300
37	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	Negative Impulse	IEC 60897
38	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	Oxidation stability at 100 °C for 164 hrs, Neutralization value after oxidation	"Withdrawn Standard" IS 335
39	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	Oxidation stability at 100 °C for 164 hrs, Neutralization value after oxidation	IS 12422
40	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	Oxidation stability at 100 °C for 164 hrs, Total Sludge after oxidation	"Withdrawn Standard" IS 335
41	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	Oxidation stability at 100 °C for 164 hrs,Total Sludge after oxidation	IS 12422

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42	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Oxidation stability at 120°C, Di - electric dissipation factor (tan delta) at 90°C (DDF)	"Withdrawn Standard" IEC 61125
43	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	Oxidation stability at 120°C, Di - electric dissipation factor (tan delta) at 90°C (DDF)	IS 12422
44	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	Oxidation stability at 120°C, Di - electric dissipation factor (tan delta) at 90°C (DDF)	IEC 61125
45	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Oxidation stability at 120°C, Total Sludge	IEC 61125
46	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Oxidation stability at 120°C,Total Acidity	"Withdrawn Standard" IEC 61125
47	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	Oxidation stability at 120°C,Total Acidity	IEC 61125
48	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	Oxidation stability at 120°C,Total Acidity	IS 12422
49	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Oxidation stability at 120°C,Total Sludge	"Withdrawn Standard" IEC 61125
50	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	Oxidation Stability of Inhibited Mineral Insulating Oil by Pressure Vessel	ASTM D2112
51	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	Oxidation Stability of Inhibited Mineral Insulating Oil by Pressure Vessel	IS 12958
52	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	Paraffinic carbon(CP) of Insulating oil by FTIR	IS 13155
53	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	PCA (Polycyclic Aromatics) content	BS 2000 Part 346
54	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	PCA (Polycyclic Aromatics) content	IP 346 page no.346.1
55	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	PCB (Polychlorinated biphenyl) Content	IS 16082

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56	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	PCB (Polychlorinated biphenyls) Content	ASTM D4059-00
57	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	PCB (Polychlorinated biphenyls) Content	IEC 61619
58	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	Pour Point	IS 1448 (Part 10: Sec 2)
59	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	Pour Point	ISO 3016
60	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	Specific resistance (Resistivity) at 27 °C	IEC 60247
61	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	Specific resistance (Resistivity) at 27 °C	IS 6103
62	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	Specific resistance (Resistivity) at 90 °C	IEC 60247
63	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	Specific resistance (Resistivity) at 90 °C	IS 6103
64	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	Specific resistance, at 27 °C after accelerated Ageing	IS 12177
65	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	Specific resistance, at 90 °C after accelerated Ageing	IS 12177
66	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Stray Gassing under Thermo-oxidative stress	IEC 60296 Annex A
67	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	Total acidity after accelerated Ageing	IS 12177
68	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	Total Sludge after accelerated Ageing	IS 12177
69	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	Total Sulfur Content	ASTM D4294

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70	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	Total Sulfur Content	ISO 20847
71	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	Total sulphur content	ISO 8754
72	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	Viscosity at 0 °C	IS 1448 (Part 25: Sec 1)
73	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	Viscosity at 100 °C	ISO 3104
74	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	Viscosity at -30 °C	IS 1448 (Part 25: Sec 1)
75	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	Viscosity at -30 °C	ISO 3104
76	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	Viscosity at 40 °C	IS 1448 (Part 25: Sec 1)
77	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	Viscosity at 40 °C	ISO 3104
78	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	Water content	IEC 60814
79	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transfrormer Oil	Interfacial Tension	IEC 62961