National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : KIRLOSKAR OIL ENGINES LIMITED - MATERIAL TESTING LAB, LAXMANRAO KIRLOSKAR ROAD, KHADAKI, PUNE, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-8473 **Page No** 1 of 6

Validity 18/10/2022 to 17/10/2024 **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	CHEMICAL- METALS & ALLOYS	Aluminium and its Alloys	Copper	ASTM E1251
2	CHEMICAL- METALS & ALLOYS	Aluminium and its Alloys	Ferrous	ASTM E1251
3	CHEMICAL- METALS & ALLOYS	Aluminium and its Alloys	Magnesium	ASTM E1251
4	CHEMICAL- METALS & ALLOYS	Aluminium and its Alloys	Manganese	ASTM E1251
5	CHEMICAL- METALS & ALLOYS	Aluminium and its Alloys	Nickel	ASTM E1251
6	CHEMICAL- METALS & ALLOYS	Aluminium and its Alloys	Silicon	ASTM E1251
7	CHEMICAL- METALS & ALLOYS	Aluminium and its Alloys	Zinc	ASTM E1251
8	CHEMICAL- METALS & ALLOYS	Die Steel (Tool Steel)	Carbon	JIS G 1253
9	CHEMICAL- METALS & ALLOYS	Die Steel (Tool Steel)	Chromium	JIS G 1253
10	CHEMICAL- METALS & ALLOYS	Die Steel (Tool Steel)	Manganese	JIS G 1253
11	CHEMICAL- METALS & ALLOYS	Die Steel (Tool Steel)	Molybdenum	JIS G 1253
12	CHEMICAL- METALS & ALLOYS	Die Steel (Tool Steel)	Nickel	JIS G 1253
13	CHEMICAL- METALS & ALLOYS	Die Steel (Tool Steel)	Phosphorus	JIS G 1253
14	CHEMICAL- METALS & ALLOYS	Die Steel (Tool Steel)	Sulphur	JIS G 1253
15	CHEMICAL- METALS & ALLOYS	Die Steel (Tool Steel)	Silicon	JIS G 1253
16	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Carbon	ASTM E415
17	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Carbon	IS 8811
18	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Carbon	JIS G 1253

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-8473 **Page No** 2 of 6

Validity 18/10/2022 to 17/10/2024 **Last Amended on** -

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19	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Chromium	ASTM E415
20	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Chromium	IS 8811
21	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Chromium	JIS G 1253
22	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Copper	ASTM E415
23	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Copper	IS 8811
24	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Copper	JIS G 1253
25	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Manganese	ASTM E415
26	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Manganese	IS 8811
27	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Manganese	JIS G 1253
28	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Molybdenum	ASTM E415
29	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Molybdenum	IS 8811
30	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Molybdenum	JIS G 1253
31	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Nickel	ASTM E415
32	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Nickel	IS 8811
33	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Nickel	JIS G 1253
34	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Phosphorus	ASTM E415
35	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Phosphorus	IS 8811
36	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Phosphorus	JIS G 1253
37	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Silicon	ASTM E415

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-8473 **Page No** 3 of 6

Validity 18/10/2022 to 17/10/2024 **Last Amended on** -

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38	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Silicon	IS 8811
39	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Silicon	JIS G 1253
40	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Sulphur	ASTM E415
41	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Sulphur	IS 8811
42	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Sulphur	JIS G 1253
43	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Vanadium	ASTM E415
44	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Vanadium	IS 8811
45	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Vanadium	JIS G 1253
46	CHEMICAL- METALS & ALLOYS	Stainless Steel	Carbon	ASTM E1086
47	CHEMICAL- METALS & ALLOYS	Stainless Steel	Carbon	IS 9879
48	CHEMICAL- METALS & ALLOYS	Stainless Steel	Carbon	JIS G 1253
49	CHEMICAL- METALS & ALLOYS	Stainless Steel	Chromium	ASTM E1086
50	CHEMICAL- METALS & ALLOYS	Stainless Steel	Chromium	IS 9879
51	CHEMICAL- METALS & ALLOYS	Stainless Steel	Chromium	JIS G 1253
52	CHEMICAL- METALS & ALLOYS	Stainless Steel	Manganese	ASTM E1086
53	CHEMICAL- METALS & ALLOYS	Stainless Steel	Manganese	IS 9879
54	CHEMICAL- METALS & ALLOYS	Stainless Steel	Manganese	JIS G 1253
55	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nickel	ASTM E1086
56	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nickel	IS 9879

SCOPE OF ACCREDITATION

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-8473 **Page No** 4 of 6

Validity 18/10/2022 to 17/10/2024 **Last Amended on** -

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57	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nickel	JIS G 1253
58	CHEMICAL- METALS & ALLOYS	Stainless Steel	Phosphorus	ASTM E1086
59	CHEMICAL- METALS & ALLOYS	Stainless Steel	Phosphorus	IS 9879
60	CHEMICAL- METALS & ALLOYS	Stainless Steel	Phosphorus	JIS G 1253
61	CHEMICAL- METALS & ALLOYS	Stainless Steel	Silicon	ASTM E1086
62	CHEMICAL- METALS & ALLOYS	Stainless Steel	Silicon	IS 9879
63	CHEMICAL- METALS & ALLOYS	Stainless Steel	Silicon	JIS G 1253
64	CHEMICAL- METALS & ALLOYS	Stainless Steel	Sulphur	ASTM E1086
65	CHEMICAL- METALS & ALLOYS	Stainless Steel	Sulphur	IS 9879
66	CHEMICAL- METALS & ALLOYS	Stainless Steel	Sulphur	JIS G 1253
67	MECHANICAL-AUTOMOTIVE COMPONENTS	Engine Components	Geometry / Co-ordinate Measurement3 Dimensional Measurement, Centre distance of dowel hole	ISO103605 ISO103602 ISO103604
68	MECHANICAL-AUTOMOTIVE COMPONENTS	Engine Components	Internal Diameter-2 Dimensional Measurement	KOEL/LAB/TM/01
69	MECHANICAL-AUTOMOTIVE COMPONENTS	Engine Components	Internal Diameter-2 Dimensional Measurement	KOEL/LAB/TM/03
70	MECHANICAL-AUTOMOTIVE COMPONENTS	Engine Components	Length measurement- 2D	KOEL-LAB-TM-01
71	MECHANICAL-AUTOMOTIVE COMPONENTS	Engine Components	Length Measurement-2 Dimensional Measurement	KOEL/LAB/TM/03
72	MECHANICAL-AUTOMOTIVE COMPONENTS	Engine Components	Outer Diameter-2 Dimensional Measurement	KOEL/LAB/TM/01

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-8473 **Page No** 5 of 6

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73	MECHANICAL-AUTOMOTIVE COMPONENTS	Engine Components	Outer Diameter-2 Dimensional Measurement	KOEL/LAB/TM/03
74	MECHANICAL-AUTOMOTIVE COMPONENTS	Engine Components	Small and complex shape parts radius,Angles.lenghth-2 Dimensional Measurement	KOEL/LAB/TM/04
75	MECHANICAL-AUTOMOTIVE COMPONENTS	Engine components	Thickness Measurement-2 Dimensional Measurement	KOEL/LAB/TM/01
76	MECHANICAL-AUTOMOTIVE COMPONENTS	Engine Components	Thickness Measurement-2 Dimensional Measurement	KOEL/LAB/TM/03
77	MECHANICAL-AUTOMOTIVE COMPONENTS	Engine Components.	Outer Diameter-2 Dimensional Measurement	KOEL/LAB/TM/02
78	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Material	Brinell Hardness (10mm/3000kgf)	IS 1500 (Part 1)
79	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Material	Brinell hardness (2.5mm/187.5 kfg)	IS 1500 (Part 1)
80	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Material	Brinell Hardness (5mm/750kgf)	IS 1500 (Part 1)
81	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Material	Charpy - U Notch (Ambient temperature only)	IS 1499
82	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Material	Elongation	IS 1608 (Part 1)
83	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Material	Micro Vickers hardness	IS 1501 (Part 1)
84	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Material	Reduction In Area	IS 1608 (Part 1)
85	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Material	Rockwell Hardness	IS1586 (Part 1)
86	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Material	Ultimate Tensile Strength	IS 1608 (Part 1)

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-8473 **Page No** 6 of 6

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87	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Material	Vickers Hardness	ISO 6507 (Part 1)
88	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Material	Vickers Hardness	ISO 6507 (Part 1)
89	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Material	Yield Strength	IS 1608 (Part 1)
90	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Rockwell Hardness	Rockwell Hardness	IS1586 (Part 1)
91	MECHANICAL-METALLOGRAPHY TEST	Depth of Decarburized Layer	Depth of Decarburization by Microscopic Method	ASTM E1077
92	MECHANICAL-METALLOGRAPHY TEST	Engine Components	Microstructure of products	ASM Vol.9
93	MECHANICAL-METALLOGRAPHY TEST	Ferrous Material	Apparent Grain size	ASTM E 112
94	MECHANICAL-METALLOGRAPHY TEST	Ferrous Material	Apparent grain size	ISO 643