National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : DAIMLER INDIA COMMERCIAL VEHICLES PVT. LTD. - CENTRAL LAB, SIPCOT INDUSTRIAL ESTATE, MATHUR (PO), ORAGADAM VILLAGE, CHENNAI, KANCHIPURAM, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5211 **Page No** 1 of 8

Validity 08/02/2022 to 07/02/2024 **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- CORROSION TESTS	Organic & Inorganic coating materials (Plated & Painted)	Neutral Salt spray test	ISO 9227
2	CHEMICAL- METALS & ALLOYS	Alloy Steel	Aluminium	ASTM E 415
3	CHEMICAL- METALS & ALLOYS	Alloy Steel	Aluminium	IS 8811
4	CHEMICAL- METALS & ALLOYS	Alloy Steel	Boron	ASTM E 415
5	CHEMICAL- METALS & ALLOYS	Alloy Steel	Boron	IS 8811
6	CHEMICAL- METALS & ALLOYS	Alloy Steel	Carbon	ASTM E 415
7	CHEMICAL- METALS & ALLOYS	Alloy Steel	Carbon	IS 8811
8	CHEMICAL- METALS & ALLOYS	Alloy Steel	Chromium	ASTM E 415
9	CHEMICAL- METALS & ALLOYS	Alloy Steel	Chromium	IS 8811
10	CHEMICAL- METALS & ALLOYS	Alloy Steel	Copper	ASTM E 415
11	CHEMICAL- METALS & ALLOYS	Alloy Steel	Copper	IS 8811
12	CHEMICAL- METALS & ALLOYS	Alloy Steel	Manganese	ASTM E 415
13	CHEMICAL- METALS & ALLOYS	Alloy Steel	Manganese	IS 8811
14	CHEMICAL- METALS & ALLOYS	Alloy Steel	Molybdenum	ASTM E 415
15	CHEMICAL- METALS & ALLOYS	Alloy Steel	Molybdenum	IS 8811
16	CHEMICAL- METALS & ALLOYS	Alloy Steel	Nickel	ASTM E 415
17	CHEMICAL- METALS & ALLOYS	Alloy Steel	Nickel	IS 8811
18	CHEMICAL- METALS & ALLOYS	Alloy Steel	Niobium	ASTM E 415

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5211 **Page No** 2 of 8

Validity 08/02/2022 to 07/02/2024 **Last Amended on** -

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19	CHEMICAL- METALS & ALLOYS	Alloy Steel	Niobium	IS 8811
20	CHEMICAL- METALS & ALLOYS	Alloy Steel	Nitrogen	ASTM E 415
21	CHEMICAL- METALS & ALLOYS	Alloy Steel	Phosphorus	ASTM E 415
22	CHEMICAL- METALS & ALLOYS	Alloy Steel	Phosphorus	IS 8811
23	CHEMICAL- METALS & ALLOYS	Alloy Steel	Silicon	ASTM E 415
24	CHEMICAL- METALS & ALLOYS	Alloy Steel	Silicon	IS 8811
25	CHEMICAL- METALS & ALLOYS	Alloy Steel	Sulphur	ASTM E 415
26	CHEMICAL- METALS & ALLOYS	Alloy Steel	Sulphur	IS 8811
27	CHEMICAL- METALS & ALLOYS	Alloy Steel	Titanium	ASTM E 415
28	CHEMICAL- METALS & ALLOYS	Alloy Steel	Titanium	IS 8811
29	CHEMICAL- METALS & ALLOYS	Alloy Steel	Vanadium	ASTM E 415
30	CHEMICAL- METALS & ALLOYS	Alloy Steel	Vanadium	IS 8811
31	CHEMICAL- METALS & ALLOYS	Carbon Steel	Aluminium	ASTM E 415
32	CHEMICAL- METALS & ALLOYS	Carbon Steel	Aluminium	IS 8811
33	CHEMICAL- METALS & ALLOYS	Carbon Steel	Boron	ASTM E 415
34	CHEMICAL- METALS & ALLOYS	Carbon Steel	Boron	IS 8811
35	CHEMICAL- METALS & ALLOYS	Carbon Steel	Carbon	ASTM E 415
36	CHEMICAL- METALS & ALLOYS	Carbon Steel	Carbon	IS 8811
37	CHEMICAL- METALS & ALLOYS	Carbon Steel	Chromium	ASTM E 415

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5211 **Page No** 3 of 8

Validity 08/02/2022 to 07/02/2024 **Last Amended on** -

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38	CHEMICAL- METALS & ALLOYS	Carbon Steel	Chromium	IS 8811
39	CHEMICAL- METALS & ALLOYS	Carbon Steel	Copper	ASTM E 415
40	CHEMICAL- METALS & ALLOYS	Carbon Steel	Copper	IS 8811
41	CHEMICAL- METALS & ALLOYS	Carbon Steel	Manganese	ASTM E 415
42	CHEMICAL- METALS & ALLOYS	Carbon Steel	Manganese	IS 8811
43	CHEMICAL- METALS & ALLOYS	Carbon Steel	Molybdenum	ASTM E 415
44	CHEMICAL- METALS & ALLOYS	Carbon Steel	Molybdenum	IS 8811
45	CHEMICAL- METALS & ALLOYS	Carbon Steel	Nickel	ASTM E 415
46	CHEMICAL- METALS & ALLOYS	Carbon Steel	Nickel	IS 8811
47	CHEMICAL- METALS & ALLOYS	Carbon Steel	Niobium	ASTM E 415
48	CHEMICAL- METALS & ALLOYS	Carbon Steel	Phosphorus	ASTM E 415
49	CHEMICAL- METALS & ALLOYS	Carbon Steel	Phosphorus	IS 8811
50	CHEMICAL- METALS & ALLOYS	Carbon Steel	Silicon	ASTM E 415
51	CHEMICAL- METALS & ALLOYS	Carbon Steel	Silicon	IS 8811
52	CHEMICAL- METALS & ALLOYS	Carbon Steel	Sulphur	ASTM E 415
53	CHEMICAL- METALS & ALLOYS	Carbon Steel	Sulphur	IS 8811
54	CHEMICAL- METALS & ALLOYS	Carbon Steel	Titanium	ASTM E 415
55	CHEMICAL- METALS & ALLOYS	Carbon Steel	Titanium	IS 8811
56	CHEMICAL- METALS & ALLOYS	Carbon Steel	Vanadium	ASTM E 415

SCOPE OF ACCREDITATION

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5211 **Page No** 4 of 8

Validity 08/02/2022 to 07/02/2024 **Last Amended on** -

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57	CHEMICAL- METALS & ALLOYS	Carbon Steel	Vanadium	IS 8811
58	CHEMICAL- PLASTIC & RESINS	Plastics & Plastic products	Material Identification by FTIR (4000 cm-1 to 400 cm-1)	ASTM E 573
59	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Case hardened steel, Induction hardened steel & Cast Iron	Case depth measurement by hardness traverse method - HV1	IS 6416
60	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Case hardened, Induction hardened steel & Cast Iron	Case depth measurement by hardness traverse method - HV1	ISO 2639
61	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Fasteners External Thread	Axial Tensile Strength	ISO 898 (Part 1)
62	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Fasteners External Thread	Axial Tensile Test	ASTM F606/F606M
63	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Fasteners External Thread	Axial Tensile Test	IS 1367 (Part 3)
64	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel & Cast Iron	% Elongation	ASTM A 370
65	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel & Cast Iron	% Elongation	IS 1608 (Part 1)
66	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel & Cast Iron	% Elongation	ISO 6892 (Part 1)
67	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel & Cast Iron	% Reduction in area	ASTM A 370
68	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel & Cast Iron	% Reduction in area	IS 1608 (Part 1)
69	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel & Cast Iron	% Reduction in area	ISO 6892 (Part 1)
70	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel & Cast Iron	0.2% Proof Strength	ASTM A 370

SCOPE OF ACCREDITATION

Laboratory Name :	DAIMLER INDIA COMMERCIAL VEHICLES PVT. LTD. - CENTRAL LAB, SIPCOT INDUSTRIAL ESTATE, MATHUR (PO), ORAGADAM VILLAGE, CHENNAI, KANCHIPURAM, TAMIL NADU, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5211
Validity	08/02/2022 to 07/02/2024

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
71	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel & Cast Iron	0.2% Proof Strength	IS 1608 (Part 1)
72	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel & Cast Iron	0.2% Proof Strength	ISO 6892 (Part 1)
73	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel & Cast Iron	Brinell Hardness (HBW 10/3000)	ASTM E 10
74	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel & Cast Iron	Brinell Hardness (HBW 10/3000)	IS 1500 (Part 1)
75	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel & Cast Iron	Brinell Hardness (HBW 10/3000)	ISO 6506 (Part 1)
76	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel & Cast Iron	Brinell Hardness (HBW 5/750)	ASTM E10
77	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel & Cast Iron	Brinell Hardness (HBW 5/750)	IS 1500 (Part 1)
78	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel & Cast Iron	Brinell Hardness (HBW 5/750)	ISO 6506 (Part 1)
79	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel & Cast Iron	Micro Vickers Hardness (HV 0.5)	ASTM E 384
80	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel & Cast Iron	Micro Vickers Hardness (HV 0.5)	IS 1501 (Part 1)
81	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel & Cast Iron	Micro Vickers Hardness (HV 0.5)	ISO 6507 (Part 1)
82	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel & Cast Iron	Micro Vickers Hardness (HV 1)	ASTM E 384
83	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel & Cast Iron	Micro Vickers Hardness (HV 1)	IS 1501 (Part 1)
84	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel & Cast Iron	Micro Vickers Hardness (HV 1)	ISO 6507 (Part 1)

SCOPE OF ACCREDITATION

Laboratory Name : DAIMLER INDIA COMMERCIAL VEHICLES PVT. LTD. - CENTRAL LAB, SIPCOT INDUSTRIAL ESTATE, MATHUR (PO), ORAGADAM VILLAGE, CHENNAI, KANCHIPURAM, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5211 **Page No** 6 of 8

Validity 08/02/2022 to 07/02/2024 **Last Amended on** -

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85	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel & Cast Iron	Rockwell Hardness (HRA)	ISO 6508 (Part 1)
86	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel & Cast iron	Rockwell Hardness (HRC)	ASTM E 18
87	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel & cast Iron	Rockwell Hardness (HRC)	IS 1586 (Part 1)
88	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel & Cast Iron	Rockwell Hardness (HRA)	ASTM E 18
89	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel & Cast Iron	Rockwell Hardness (HRA)	IS 1586 (Part 1)
90	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel & Cast Iron	Rockwell Hardness (HRBW)	ASTM E 18
91	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel & Cast Iron	Rockwell Hardness (HRBW)	IS 1586 (Part 1)
92	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel & Cast Iron	Rockwell Hardness (HRBW)	ISO 6508 (Part 1)
93	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel & Cast Iron	Rockwell Hardness (HRC)	ISO 6508 (Part 1)
94	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel & Cast Iron	Tensile Strength	ASTM A 370
95	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel & Cast Iron	Tensile Strength	IS 1608 (Part 1)
96	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel & Cast Iron	Tensile Strength	ISO 6892 (Part 1)
97	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel & Cast Iron	Vickers Hardness (HV 30)	ASTM E 92
98	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel & Cast Iron	Vickers Hardness (HV 30)	IS 1501 (Part 1)

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5211 **Page No** 7 of 8

Validity 08/02/2022 to 07/02/2024 **Last Amended on** -

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99	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel & Cast Iron	Vickers Hardness (HV 30)	ISO 6507 (Part 1)
100	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel & Cast Iron	Yield Strength	ASTM A 370
101	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel & Cast Iron	Yield Strength	IS 1608 (Part 1)
102	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel & Cast Iron	Yield Strength	ISO 6892 (Part 1)
103	MECHANICAL-METALLOGRAPHY TEST	Carbon and Alloy Steels, Cast iron	Microstructure Examination	ASM Metal Hand Book Volume-09
104	MECHANICAL-METALLOGRAPHY TEST	Cast Iron (Gray cast iron and SG iron)	Graphite Size, Distribution of graphite flakes and Nodules	IS 7754
105	MECHANICAL-METALLOGRAPHY TEST	Cast Iron (Gray cast iron and SG iron)	Graphite Size, Distribution of graphite flakes and Nodules	ASTM A 247
106	MECHANICAL-METALLOGRAPHY TEST	Cast Iron (Gray cast iron and SG iron)	Graphite Size, Distribution of graphite flakes and Nodules	ISO 945 (Part 1)
107	MECHANICAL-METALLOGRAPHY TEST	Metallic coating on Metals	Measurement of coating thickness by microscopic method.	ISO 1463
108	MECHANICAL-METALLOGRAPHY TEST	Painted or Electroplated products	Measurement of coating thickness	ISO 2178
109	MECHANICAL-METALLOGRAPHY TEST	Steel & Cast Iron	Depth of decarburization measurement by microscopic method	IS 6396
110	MECHANICAL-METALLOGRAPHY TEST	Steel and Cast Iron	Depth of decarburization measurement by microscopic method	ASTM E 1077
111	MECHANICAL-METALLOGRAPHY TEST	Steels bars, Forging of carbon and low alloy steels	Macro Examination with rating	ASTM E 381
112	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastics and Plastic Products	Ash Content	DIN EN ISO 3451 (1)
113	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastics and Plastic Products	Density @ 23degC	ASTM D792
114	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastics and Plastic Products	Density @ 23degC	DIN EN ISO 1183 (Part 1)

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Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5211	**Page No**	8 of 8
Validity	08/02/2022 to 07/02/2024	**Last Amended on**	-

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115	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastics and Plastic Products	Shore Hardness D	ASTM D2240
116	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastics and Plastic Products	Shore Hardness D	DIN EN ISO 868
117	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastics and Plastic Products	Shore Hardness D	ISO 48-4
118	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Rubbers and Rubber Products	Shore Hardness A	ASTM D 2240
119	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Rubbers and Rubber Products	Shore Hardness A	DIN EN ISO 868
120	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Rubbers and Rubber Products	Shore Hardness A	ISO 48-4