National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : CUMMINS TECHNOLOGIES INDIA PRIVATE LIMITED (CUMMINS TECHNICAL CENTER INDIA DIVISION), DAHANUKAR COLONY, KOTHRUD, PUNE, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-11547 **Page No** 1 of 16

Validity 11/04/2023 to 10/04/2025 **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- ATMOSPHERIC POLLUTION	Diesel Engine (Automotive)	Particulate Matter Pollutants Measured on Steady-State and Transient Test Cycles in Constant Volume Sampling for Type Approval and Conformity of Production Test at TC#46	AIS 137, Part 4
2	CHEMICAL- ATMOSPHERIC POLLUTION	Diesel Engine (Automotive)	CO Pollutants Measured on Steady-State and Transient Test Cycles in Constant Volume Sampling for Type Approval and Conformity of Production Test at TC#46	40 CFR, Part 1065
3	CHEMICAL- ATMOSPHERIC POLLUTION	Diesel Engine (Automotive)	CO Pollutants Measured on Steady-State and Transient Test Cycles in Constant Volume Sampling for Type Approval and Conformity of Production Test at TC#46	AIS 137, Part 4
4	CHEMICAL- ATMOSPHERIC POLLUTION	Diesel Engine (Automotive)	CO Pollutants Measured on Steady-State and Transient Test Cycles in Constant Volume Sampling for Type Approval and Conformity of Production Test at TC#46	ECE Regulation 49.07
5	CHEMICAL- ATMOSPHERIC POLLUTION	Diesel Engine (Automotive)	CO Pollutants Measured on Steady-State and Transient Test Cycles in Raw Mode for Type Approval and Conformity of Production Test at TC#28,42,46,49	40 CFR, Part 1065
6	CHEMICAL- ATMOSPHERIC POLLUTION	Diesel Engine (Automotive)	CO Pollutants Measured on Steady-State and Transient Test Cycles in Raw Mode for Type Approval and Conformity of Production Test at TC#28,42,46,49	AIS 137, Part 4
7	CHEMICAL- ATMOSPHERIC POLLUTION	Diesel Engine (Automotive)	CO Pollutants Measured on Steady-State and Transient Test Cycles in Raw Mode for Type Approval and Conformity of Production Test at TC#28,42,46,49	ECE Regulation 49.07

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-11547 **Page No** 2 of 16

Validity 11/04/2023 to 10/04/2025 **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
8	CHEMICAL- ATMOSPHERIC POLLUTION	Diesel Engine (Automotive)	HC Pollutants Measured on Steady-State and Transient Test Cycles in Constant Volume Sampling for Type Approval and Conformity of Production Test at TC#46	40 CFR, Part 1065
9	CHEMICAL- ATMOSPHERIC POLLUTION	Diesel Engine (Automotive)	HC Pollutants Measured on Steady-State and Transient Test Cycles in Constant Volume Sampling for Type Approval and Conformity of Production Test at TC#46	AIS 137, Part 4
10	CHEMICAL- ATMOSPHERIC POLLUTION	Diesel Engine (Automotive)	HC Pollutants Measured on Steady-State and Transient Test Cycles in Constant Volume Sampling for Type Approval and Conformity of Production Test at TC#46	ECE Regulation 49.07
11	CHEMICAL- ATMOSPHERIC POLLUTION	Diesel Engine (Automotive)	HC Pollutants Measured on Steady-State and Transient Test Cycles in Raw Mode for Type Approval and Conformity of Production Test at TC#28,42,46,49	40 CFR, Part 1065
12	CHEMICAL- ATMOSPHERIC POLLUTION	Diesel Engine (Automotive)	HC Pollutants Measured on Steady-State and Transient Test Cycles in Raw Mode for Type Approval and Conformity of Production Test at TC#28,42,46,49	AIS 137, Part 4
13	CHEMICAL- ATMOSPHERIC POLLUTION	Diesel Engine (Automotive)	HC Pollutants Measured on Steady-State and Transient Test Cycles in Raw Mode for Type Approval and Conformity of Production Test at TC#28,42,46,49	ECE Regulation 49.07
14	CHEMICAL- ATMOSPHERIC POLLUTION	Diesel Engine (Automotive)	NH3 Pollutants Measured on Steady-State and Transient Test Cycles in Constant Volume Sampling for Type Approval and Conformity of Production Test at TC#46	40 CFR, Part 1065

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-11547 **Page No** 3 of 16

Validity 11/04/2023 to 10/04/2025 **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
15	CHEMICAL- ATMOSPHERIC POLLUTION	Diesel Engine (Automotive)	NH3 Pollutants Measured on Steady-State and Transient Test Cycles in Constant Volume Sampling for Type Approval and Conformity of Production Test at TC#46	AIS 137, Part 4
16	CHEMICAL- ATMOSPHERIC POLLUTION	Diesel Engine (Automotive)	NH3 Pollutants Measured on Steady-State and Transient Test Cycles in Constant Volume Sampling for Type Approval and Conformity of Production Test at TC#46	ECE Regulation 49.07
17	CHEMICAL- ATMOSPHERIC POLLUTION	Diesel Engine (Automotive)	NH3 Pollutants Measured on Steady-State and Transient Test Cycles in Raw Mode for Type Approval and Conformity of Production Test at TC#28,42,46,49	40 CFR, Part 1065
18	CHEMICAL- ATMOSPHERIC POLLUTION	Diesel Engine (Automotive)	NH3 Pollutants Measured on Steady-State and Transient Test Cycles in Raw Mode for Type Approval and Conformity of Production Test at TC#28,42,46,49	AIS 137, Part 4
19	CHEMICAL- ATMOSPHERIC POLLUTION	Diesel Engine (Automotive)	NH3 Pollutants Measured on Steady-State and Transient Test Cycles in Raw Mode for Type Approval and Conformity of Production Test at TC#28,42,46,49	ECE Regulation 49.07
20	CHEMICAL- ATMOSPHERIC POLLUTION	Diesel Engine (Automotive)	NOx Pollutants Measured on Steady-State and Transient Test Cycles in Constant Volume Sampling for Type Approval and Conformity of Production Test at TC#46	40 CFR, Part 1065
21	CHEMICAL- ATMOSPHERIC POLLUTION	Diesel Engine (Automotive)	NOx Pollutants Measured on Steady-State and Transient Test Cycles in Constant Volume Sampling for Type Approval and Conformity of Production Test at TC#46	AIS 137, Part 4

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-11547 **Page No** 4 of 16

Validity 11/04/2023 to 10/04/2025 **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
22	CHEMICAL- ATMOSPHERIC POLLUTION	Diesel Engine (Automotive)	NOx Pollutants Measured on Steady-State and Transient Test Cycles in Constant Volume Sampling for Type Approval and Conformity of Production Test at TC#46	ECE Regulation 49.07
23	CHEMICAL- ATMOSPHERIC POLLUTION	Diesel Engine (Automotive)	NOX Pollutants Measured on Steady-State and Transient Test Cycles in Raw Mode for Type Approval and Conformity of Production Test at TC#28,42,46,49	40 CFR, Part 1065
24	CHEMICAL- ATMOSPHERIC POLLUTION	Diesel Engine (Automotive)	NOx Pollutants Measured on Steady-State and Transient Test Cycles in Raw Mode for Type Approval and Conformity of Production Test at TC#28,42,46,49	AIS 137, Part 4
25	CHEMICAL- ATMOSPHERIC POLLUTION	Diesel Engine (Automotive)	NOX Pollutants Measured on Steady-State and Transient Test Cycles in Raw Mode for Type Approval and Conformity of Production Test at TC#28,42,46,49	ECE Regulation 49.07
26	CHEMICAL- ATMOSPHERIC POLLUTION	Diesel Engine (Automotive)	Particulate Matter Pollutants Measured on Steady-State and Transient Test Cycles in Constant Volume Sampling for Type Approval and Conformity of Production Test at TC#46	40 CFR, Part 1065
27	CHEMICAL- ATMOSPHERIC POLLUTION	Diesel Engine (Automotive)	Particulate Matter Pollutants Measured on Steady-State and Transient Test Cycles in Constant Volume Sampling for Type Approval and Conformity of Production Test at TC#46	ECE Regulation 49.07
28	CHEMICAL- ATMOSPHERIC POLLUTION	Diesel Engine (Automotive)	Particulate Matter Pollutants Measured on Steady-State and Transient Test Cycles in Raw Mode for Type Approval and Conformity of Production Test at TC#28,42,46,49	40 CFR, Part 1065

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-11547 **Page No** 5 of 16

Validity 11/04/2023 to 10/04/2025 **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
29	CHEMICAL- ATMOSPHERIC POLLUTION	Diesel Engine (Automotive)	Particulate Matter Pollutants Measured on Steady-State and Transient Test Cycles in Raw Mode for Type Approval and Conformity of Production Test at TC#28,42,46,49	AIS 137, Part 4
30	CHEMICAL- ATMOSPHERIC POLLUTION	Diesel Engine (Automotive)	Particulate Matter Pollutants Measured on Steady-State and Transient Test Cycles in Raw Mode for Type Approval and Conformity of Production Test at TC#28,42,46,49	ECE Regulation 49.07
31	CHEMICAL- ATMOSPHERIC POLLUTION	Diesel Engine (Automotive)	Particulate Number Pollutants Measured on Steady-State and Transient Test Cycles in Constant Colume Sampling for Type Approval and Conformity of Production Test at TC#46	AIS 137, Part 4
32	CHEMICAL- ATMOSPHERIC POLLUTION	Diesel Engine (Automotive)	Particulate Number Pollutants measured on steady-state and transient test cycles in constant volume sampling for Type Approval and Conformity of Production test at TC#46	40 CFR, Part 1065
33	CHEMICAL- ATMOSPHERIC POLLUTION	Diesel Engine (Automotive)	Particulate Number Pollutants measured on steady-state and transient test cycles in constant volume sampling for Type Approval and Conformity of Production test at TC#46	ECE Regulation 49.07
34	CHEMICAL- ATMOSPHERIC POLLUTION	Diesel Engine (Automotive)	Particulate Number Pollutants measured on steady-state and transient test cycles in raw mode for Type Approval and Conformity of Production test at TC#28,42,46,49	40 CFR, Part 1065
35	CHEMICAL- ATMOSPHERIC POLLUTION	Diesel Engine (Automotive)	Particulate Number Pollutants Measured on Steady-State and Transient Test Cycles in Raw Mode for Type Approval and Conformity of Production Test at TC#28,42,46,49	AIS 137, Part 4

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-11547 **Page No** 6 of 16

Validity 11/04/2023 to 10/04/2025 **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
36	CHEMICAL- ATMOSPHERIC POLLUTION	Diesel Engine (Automotive)	Particulate Number Pollutants measured on steady-state and transient test cycles in raw mode for Type Approval and Conformity of Production test at TC#28,42,46,49	ECE Regulation 49.07
37	CHEMICAL- ATMOSPHERIC POLLUTION	Diesel Engines (Agricultural Machinery Engines, CEV Engines)	CO Pollutants Measured on Steady-State and Transient Test Cycles in Constant Volume Sampling for Type Approval and Conformity of Production Test at TC#46	40 CFR, Part 1065
38	CHEMICAL- ATMOSPHERIC POLLUTION	Diesel Engines (Agricultural Machinery Engines, CEV Engines)	CO Pollutants Measured on Steady-State and Transient Test Cycles in Constant Volume Sampling for Type Approval and Conformity of Production Test at TC#46	AIS 137, Part 7
39	CHEMICAL- ATMOSPHERIC POLLUTION	Diesel Engines (Agricultural Machinery Engines, CEV Engines)	CO Pollutants Measured on Steady-State and Transient Test Cycles in Constant Volume Sampling for Type Approval and Conformity of Production Test at TC#46	ECE Regulation 96.05
40	CHEMICAL- ATMOSPHERIC POLLUTION	Diesel Engines (Agricultural Machinery Engines, CEV Engines)	CO Pollutants Measured on Steady-State and Transient Test Cycles in Raw Mode for Type Approval and Conformity of Production Test at TC#28,42,46,49	40 CFR, Part 1065
41	CHEMICAL- ATMOSPHERIC POLLUTION	Diesel Engines (Agricultural Machinery Engines, CEV Engines)	CO Pollutants Measured on Steady-State and Transient Test Cycles in Raw Mode for Type Approval and Conformity of Production Test at TC#28,42,46,49	AIS 137, Part 7
42	CHEMICAL- ATMOSPHERIC POLLUTION	Diesel Engines (Agricultural Machinery Engines, CEV Engines)	CO Pollutants Measured on Steady-State and Transient Test Cycles in Raw Mode for Type Approval and Conformity of Production Test at TC#28,42,46,49	ECE Regulation 96.05

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Certificate Number TC-11547 **Page No** 7 of 16

Validity 11/04/2023 to 10/04/2025 **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
43	CHEMICAL- ATMOSPHERIC POLLUTION	Diesel Engines (Agricultural Machinery Engines, CEV Engines)	HC Pollutants Measured on Steady-State and Transient Test Cycles in Constant Volume Sampling for Type Approval and Conformity of Production Test at TC#46	40 CFR, Part 1065
44	CHEMICAL- ATMOSPHERIC POLLUTION	Diesel Engines (Agricultural Machinery Engines, CEV Engines)	HC Pollutants Measured on Steady-State and Transient Test Cycles in Constant Volume Sampling for Type Approval and Conformity of Production Test at TC#46	AIS 137, Part 7
45	CHEMICAL- ATMOSPHERIC POLLUTION	Diesel Engines (Agricultural Machinery Engines, CEV Engines)	HC Pollutants Measured on Steady-State and Transient Test Cycles in Constant Volume Sampling for Type Approval and Conformity of Production Test at TC#46	ECE Regulation 96.05
46	CHEMICAL- ATMOSPHERIC POLLUTION	Diesel Engines (Agricultural Machinery Engines, CEV Engines)	HC Pollutants Measured on Steady-State and Transient Test Cycles in Raw Mode for Type Approval and Conformity of Production Test at TC#28,42,46,49	40 CFR, Part 1065
47	CHEMICAL- ATMOSPHERIC POLLUTION	Diesel Engines (Agricultural Machinery Engines, CEV Engines)	HC Pollutants Measured on Steady-State and Transient Test Cycles in Raw Mode for Type Approval and Conformity of Production Test at TC#28,42,46,49	AIS 137, Part 7
48	CHEMICAL- ATMOSPHERIC POLLUTION	Diesel Engines (Agricultural Machinery Engines, CEV Engines)	HC Pollutants Measured on Steady-State and Transient Test Cycles in Raw Mode for Type Approval and Conformity of Production Test at TC#28,42,46,49	ECE Regulation 96.05
49	CHEMICAL- ATMOSPHERIC POLLUTION	Diesel Engines (Agricultural Machinery Engines, CEV Engines)	NH3 Pollutants Measured on Steady-State and Transient Test Cycles in Constant Volume Sampling for Type Approval and Conformity of Production Test at TC#46	40 CFR, Part 1065

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Laboratory Name :	CUMMINS TECHNOLOGIES INDIA PRIVATE LIMITED (CUMMINS TECHNICAL CENTER INDIA DIVISION), DAHANUKAR COLONY, KOTHRUD, PUNE, MAHARASHTRA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-11547	**Page No**	8 of 16
Validity	11/04/2023 to 10/04/2025	**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
50	CHEMICAL- ATMOSPHERIC POLLUTION	Diesel Engines (Agricultural Machinery Engines, CEV Engines)	NH3 Pollutants Measured on Steady-State and Transient Test Cycles in Constant Volume Sampling for Type Approval and Conformity of Production Test at TC#46	AIS 137, Part 7
51	CHEMICAL- ATMOSPHERIC POLLUTION	Diesel Engines (Agricultural Machinery Engines, CEV Engines)	NH3 Pollutants Measured on Steady-State and Transient Test Cycles in Constant Volume Sampling for Type Approval and Conformity of Production Test at TC#46	ECE Regulation 96.05
52	CHEMICAL- ATMOSPHERIC POLLUTION	Diesel Engines (Agricultural Machinery Engines, CEV Engines)	NH3 Pollutants Measured on Steady-State and Transient Test Cycles in Raw Mode for Type Approval and Conformity of Production Test at TC#28,42,46,49	40 CFR, Part 1065
53	CHEMICAL- ATMOSPHERIC POLLUTION	Diesel Engines (Agricultural Machinery Engines, CEV Engines)	NH3 Pollutants Measured on Steady-State and Transient Test Cycles in Raw Mode for Type Approval and Conformity of Production Test at TC#28,42,46,49	AIS 137, Part 7
54	CHEMICAL- ATMOSPHERIC POLLUTION	Diesel Engines (Agricultural Machinery Engines, CEV Engines)	NH3 Pollutants Measured on Steady-State and Transient Test Cycles in Raw Mode for Type Approval and Conformity of Production Test at TC#28,42,46,49	ECE Regulation 96.05
55	CHEMICAL- ATMOSPHERIC POLLUTION	Diesel Engines (Agricultural Machinery Engines, CEV Engines)	NOx Pollutants Measured on Steady-State and Transient Test Cycles in Constant Volume Sampling for Type Approval and Conformity of Production Test at TC#46	40 CFR, Part 1065
56	CHEMICAL- ATMOSPHERIC POLLUTION	Diesel Engines (Agricultural Machinery Engines, CEV Engines)	NOx Pollutants Measured on Steady-State and Transient Test Cycles in Constant Volume Sampling for Type Approval and Conformity of Production Test at TC#46	AIS 137 Part 7

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Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-11547	**Page No**	9 of 16
Validity	11/04/2023 to 10/04/2025	**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
57	CHEMICAL- ATMOSPHERIC POLLUTION	Diesel Engines (Agricultural Machinery Engines, CEV Engines)	NOx Pollutants Measured on Steady-State and Transient Test Cycles in Constant Volume Sampling for Type Approval and Conformity of Production Test at TC#46	ECE Regulation 96.05
58	CHEMICAL- ATMOSPHERIC POLLUTION	Diesel Engines (Agricultural Machinery Engines, CEV Engines)	NOx Pollutants Measured on Steady-State and Transient Test Cycles in Constant Volume Sampling for Type Approval and Conformity of Production Test at TC#46	ECE Regulation 96.05
59	CHEMICAL- ATMOSPHERIC POLLUTION	Diesel Engines (Agricultural Machinery Engines, CEV Engines)	NOx Pollutants Measured on Steady-State and Transient Test Cycles in Raw Mode for Type Approval and Conformity of Production Test at TC#28,42,46,49	40 CFR, Part 1065
60	CHEMICAL- ATMOSPHERIC POLLUTION	Diesel Engines (Agricultural Machinery Engines, CEV Engines)	NOx Pollutants Measured on Steady-State and Transient Test Cycles in Raw Mode for Type Approval and Conformity of Production Test at TC#28,42,46,49	AIS 137, Part 7
61	CHEMICAL- ATMOSPHERIC POLLUTION	Diesel Engines (Agricultural Machinery Engines, CEV Engines)	NOX Pollutants Measured on Steady-State and Transient Test Cycles in Raw Mode for Type Approval and Conformity of Production Test at TC#28,42,46,49	ECE Regulation 96.05
62	CHEMICAL- ATMOSPHERIC POLLUTION	Diesel Engines (Agricultural Machinery Engines, CEV Engines)	Particulate Matter Pollutants Measured on Steady-State and Transient Test Cycles in Constant Volume Sampling for Type Approval and Conformity of Production Test at TC#46	40 CFR, Part 1065
63	CHEMICAL- ATMOSPHERIC POLLUTION	Diesel Engines (Agricultural Machinery Engines, CEV Engines)	Particulate Matter Pollutants Measured on Steady-State and Transient Test Cycles in Constant Volume Sampling for Type Approval and Conformity of Production Test at TC#46	AIS 137, Part 7

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-11547 **Page No** 10 of 16

Validity 11/04/2023 to 10/04/2025 **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
64	CHEMICAL- ATMOSPHERIC POLLUTION	Diesel Engines (Agricultural Machinery Engines, CEV Engines)	Particulate Matter Pollutants Measured on Steady-State and Transient Test Cycles in Constant Volume Sampling for Type Approval and Conformity of Production Test at TC#46	ECE Regulation 96.05
65	CHEMICAL- ATMOSPHERIC POLLUTION	Diesel Engines (Agricultural Machinery Engines, CEV Engines)	Particulate Matter Pollutants Measured on Steady-State and Transient Test Cycles in Raw Mode for Type Approval and Conformity of Production Test at TC#28,42,46,49	40 CFR, Part 1065
66	CHEMICAL- ATMOSPHERIC POLLUTION	Diesel Engines (Agricultural Machinery Engines, CEV Engines)	Particulate Matter Pollutants Measured on Steady-State and Transient Test Cycles in Raw Mode for Type Approval and Conformity of Production Test at TC#28,42,46,49	AIS 137, Part 7
67	CHEMICAL- ATMOSPHERIC POLLUTION	Diesel Engines (Agricultural Machinery Engines, CEV Engines)	Particulate Matter Pollutants Measured on Steady-State and Transient Test Cycles in Raw Mode for Type Approval and Conformity of Production Test at TC#28,42,46,49	ECE Regulation 96.05
68	CHEMICAL- ATMOSPHERIC POLLUTION	Diesel Engines (Agricultural Machinery Engines, CEV Engines)	Particulate Number Pollutants Measured on Steady-state and Transient Test Cycles in Constant Volume Sampling for Type Approval and Conformity of Production Test at TC#46	40 CFR, Part 1065
69	CHEMICAL- ATMOSPHERIC POLLUTION	Diesel Engines (Agricultural Machinery Engines, CEV Engines)	Particulate Number Pollutants Measured on Steady-State and Transient Test Cycles in Constant Volume Sampling for Type Approval and Conformity of Production Test at TC#46	AIS 137, Part 7
70	CHEMICAL- ATMOSPHERIC POLLUTION	Diesel Engines (Agricultural Machinery Engines, CEV Engines)	Particulate Number Pollutants Measured on Steady-State and Transient Test Cycles in Raw Mode for Type Approval and Conformity of Production Test at TC#28,42,46,49	40 CFR, Part 1065

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Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-11547	**Page No**	11 of 16
Validity	11/04/2023 to 10/04/2025	**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
71	CHEMICAL- ATMOSPHERIC POLLUTION	Diesel Engines (Agricultural Machinery Engines, CEV Engines)	Particulate Number Pollutants Measured on Steady-State and Transient Test Cycles in Raw Mode for Type Approval and Conformity of Production Test at TC#28,42,46,49	AIS 137, Part 7
72	CHEMICAL- ATMOSPHERIC POLLUTION	Diesel Engines (Agricultural Machinery Engines, CEV Engines)	Particulate Number Pollutants Measured on Steady-State and Transient Test Cycles in Raw Mode for Type Approval and Conformity of Production Test at TC#28,42,46,49	ECE Regulation 96.05
73	CHEMICAL- ATMOSPHERIC POLLUTION	Diesel Engines (Agricultural Machinery Engines, CEV Engines)	Particulate Number Pollutants Measured on Steady-State and Transient Test Cycles in Raw Mode for Type Approval and Conformity of Production Test at TC#46	ECE Regulation 96.05
74	CHEMICAL- ATMOSPHERIC POLLUTION	Diesel Engines (Genset Engines)	CO Pollutants Measured on Steady-State Test Cycles in Raw Mode for Type Approval and Conformity of Production Test at TC#28,42,46,49	40 CFR, Part 1065
75	CHEMICAL- ATMOSPHERIC POLLUTION	Diesel Engines (Genset Engines)	CO Pollutants Measured on Steady-State Test Cycles in Raw Mode for Type Approval and Conformity of Production Test at TC#28,42,46,49	ISO 8178-4
76	CHEMICAL- ATMOSPHERIC POLLUTION	Diesel Engines (Genset Engines)	HC Pollutants Measured on Steady-State Test Cycles in Raw Mode for Type Approval and Conformity of Production Test at TC#28,42,46,49	40 CFR, Part 1065
77	CHEMICAL- ATMOSPHERIC POLLUTION	Diesel Engines (Genset Engines)	HC Pollutants Measured on Steady-State Test Cycles in Raw Mode for Type Approval and Conformity of Production Test at TC#28,42,46,49	ISO 8178-4
78	CHEMICAL- ATMOSPHERIC POLLUTION	Diesel Engines (Genset Engines)	NH3 Pollutants Measured on Steady-State Test Cycles in Raw Mode for Type Approval and Conformity of Production Test at TC#28,42,46,49	40 CFR, Part 1065

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Laboratory Name : CUMMINS TECHNOLOGIES INDIA PRIVATE LIMITED (CUMMINS TECHNICAL CENTER INDIA DIVISION), DAHANUKAR COLONY, KOTHRUD, PUNE, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-11547 **Page No** 12 of 16

Validity 11/04/2023 to 10/04/2025 **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
79	CHEMICAL- ATMOSPHERIC POLLUTION	Diesel Engines (Genset Engines)	NH3 Pollutants Measured on Steady-State Test Cycles in Raw Mode for Type Approval and Conformity of Production Test at TC#28,42,46,49	ISO 8178-4
80	CHEMICAL- ATMOSPHERIC POLLUTION	Diesel Engines (Genset Engines)	NOx Pollutants Measured on Steady-State Test Cycles in Raw Mode for Type Approval and Conformity of Production Test at TC#28,42,46,49	40 CFR, Part 1065
81	CHEMICAL- ATMOSPHERIC POLLUTION	Diesel Engines (Genset Engines)	NOx Pollutants Measured on Steady-State Test Cycles in Raw Mode for Type Approval and Conformity of Production Test at TC#28,42,46,49	ISO 8178-4
82	CHEMICAL- ATMOSPHERIC POLLUTION	Diesel Engines (Genset Engines)	Particulate Matter Pollutants Measured on Steady-State Test Cycles in Raw Mode for Type Approval and Conformity of Production Test at TC#28,42,46,49	40 CFR, Part 1065
83	CHEMICAL- ATMOSPHERIC POLLUTION	Diesel Engines (Genset Engines)	Particulate Matter Pollutants Measured on Steady-State Test Cycles in Raw Mode for Type Approval and Conformity of Production Test at TC#28,42,46,49	ISO 8178-4
84	CHEMICAL- METALS & ALLOYS	Aluminium Alloys	Chromium	ASTM E1251
85	CHEMICAL- METALS & ALLOYS	Aluminium Alloys	Copper	ASTM E1251
86	CHEMICAL- METALS & ALLOYS	Aluminium Alloys	Iron	ASTM E1251
87	CHEMICAL- METALS & ALLOYS	Aluminium Alloys	Lead	ASTM E1251
88	CHEMICAL- METALS & ALLOYS	Aluminium Alloys	Magnesium	ASTM E1251
89	CHEMICAL- METALS & ALLOYS	Aluminium Alloys	Manganese	ASTM E1251
90	CHEMICAL- METALS & ALLOYS	Aluminium Alloys	Nickel	ASTM E1251

SCOPE OF ACCREDITATION

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-11547 **Page No** 13 of 16

Validity 11/04/2023 to 10/04/2025 **Last Amended on** -

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91	CHEMICAL- METALS & ALLOYS	Aluminium Alloys	Silicon	ASTM E1251
92	CHEMICAL- METALS & ALLOYS	Aluminium Alloys	Tin	ASTM E1251
93	CHEMICAL- METALS & ALLOYS	Aluminium Alloys	Titanium	ASTM E1251
94	CHEMICAL- METALS & ALLOYS	Aluminium Alloys	Zinc	ASTM E1251
95	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Aluminium	ASTM E415
96	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Carbon	ASTM E415
97	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Chromium	ASTM E415 2021
98	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Copper	ASTM E415
99	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Manganese	ASTM E415
100	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Molybdenum	ASTM E415
101	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Nickel	ASTM E415
102	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Phosphorous	ASTM E415
103	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Silicon	ASTM E415
104	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Sulphur	ASTM E415
105	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Tin	ASTM E415
106	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Vanadium	ASTM E415
107	CHEMICAL- METALS & ALLOYS	Stainless Steel	Carbon	ASTM E1086
108	CHEMICAL- METALS & ALLOYS	Stainless Steel	Chromium	ASTM E1086
109	CHEMICAL- METALS & ALLOYS	Stainless Steel	Copper	ASTM E1086

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Certificate Number	TC-11547
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110	CHEMICAL- METALS & ALLOYS	Stainless Steel	Manganese	ASTM E1086
111	CHEMICAL- METALS & ALLOYS	Stainless Steel	Molybdenum	ASTM E1086
112	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nickel	ASTM E1086
113	CHEMICAL- METALS & ALLOYS	Stainless Steel	Phosphorous	ASTM E1086
114	CHEMICAL- METALS & ALLOYS	Stainless Steel	Silicon	ASTM E1086
115	CHEMICAL- METALS & ALLOYS	Stainless Steel	Sulphur	ASTM E1086
116	CHEMICAL- PETROLEUM AND PRODUCTS	Automotive Diesel Fuel	Density 15° C	ASTM D4052
117	CHEMICAL- PETROLEUM AND PRODUCTS	Automotive Diesel Fuel	Flash Point (Abel)	ISO 13736
118	CHEMICAL- PETROLEUM AND PRODUCTS	Automotive Diesel Fuel	Kinematic Viscosity at 40° C	ASTM D7042
119	CHEMICAL- PETROLEUM AND PRODUCTS	Automotive Diesel Fuel	Total Sulphur Content	ASTM D5453
120	CHEMICAL- PETROLEUM AND PRODUCTS	Coolant	pH Value	ASTM D1287
121	CHEMICAL- PETROLEUM AND PRODUCTS	Lubricating Oil	Density 15° C	ASTM D4052
122	CHEMICAL- PETROLEUM AND PRODUCTS	Lubricating Oil	Density 20° C	ASTM D4052
123	CHEMICAL- PETROLEUM AND PRODUCTS	Lubricating Oil	Density 29.5° C	ASTM D4052
124	CHEMICAL- PETROLEUM AND PRODUCTS	Lubricating Oil	Kinematic Viscosity at 100° C	ASTM D7042
125	CHEMICAL- PETROLEUM AND PRODUCTS	Lubricating Oil	Kinematic Viscosity at 40° C	ASTM D7042
126	CHEMICAL- PETROLEUM AND PRODUCTS	Lubricating Oil	Soot	ASTM E2412
127	CHEMICAL- WATER	DM Water	pH Value	ASTM D1293
128	MECHANICAL- AUTOMOTIVE COMPONENTS	Diesel Engines (Agricultural Machinery, CEV Engines, Automotive Engines)	Measurement of Engine Power in the Test Cell 28,42,46 and 49	AIS 137, Part 5, Clause No. 3.4

SCOPE OF ACCREDITATION

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-11547 **Page No** 15 of 16

Validity 11/04/2023 to 10/04/2025 **Last Amended on** -

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129	MECHANICAL-AUTOMOTIVE COMPONENTS	Diesel Engines (Agricultural Machinery, Genset Engines, CEV Engines)	Measurement of Engine Power in the Test Cell 28,42,46 and 49	NRMM ECE Regulation 120, Clause No. 5.3.1
130	MECHANICAL-AUTOMOTIVE COMPONENTS	Diesel Engines (Agricultural Machinery, Genset Engines, CEV Engines, Automotive Engines)	Measurement of Engine Power in the Test Cell 28,42,46 and 49	40 CFR, Part 1065.110
131	MECHANICAL-AUTOMOTIVE COMPONENTS	Diesel Engines (Automotive Engines)	Measurement of Engine Power in the Test Cell 28,42,46 and 49	ECE Regulation 85.00, Clause No. 5.4
132	MECHANICAL-AUTOMOTIVE COMPONENTS	Diesel Engines (Genset Engines)	Measurement of Engine Power in the Test Cell 28,42,46 and 49	ISO 8178-4, Clause No. 5.2
133	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Brinell Hardness Test 2.5 mm/ 187.5 kgf	ASTM E10
134	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Brinell Hardness Test 5.0 mm/ 750 kgf	ASTM E10
135	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Elongation	ASTM E8/E8M
136	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Micro Vickers Hardness Test HV 0.5	ASTM E384
137	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Micro Vickers Hardness Test HV 1	ASTM E384
138	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Reduction in Area	ASTM E8/E8M
139	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Rockwell Hardness Test HRA	ASTM E18
140	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Rockwell Hardness Test HRBW	ASTM E18
141	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Rockwell Hardness Test HRC	ASTM E18
142	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Ultimate Tensile Strength	ASTM E8/E8M

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-11547 **Page No** 16 of 16

Validity 11/04/2023 to 10/04/2025 **Last Amended on** -

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143	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Yield Strength	ASTM E8/E8M
144	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Brinell Hardness Test 10 mm / 3000 kgf	ASTM E10
145	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Other Non-Ferrous Materials, Alloys & Products	Elongation	ASTM E8/E8M
146	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Other Non-Ferrous Materials, Alloys & Products	Reduction in Area	ASTM E8/E8M
147	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Other Non-Ferrous Materials, Alloys & Products	Ultimate Tensile Strength	ASTM E8/E8M
148	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Other Non-Ferrous Materials, Alloys & Products	Yield Strength	ASTM E8/E8M