



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

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MECHANICAL

Valid To: June 30, 2026

Certificate Number: 7256.02

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following tests on automotive, electrical, electronic, and mechanical components and assemblies:

<u>Test:</u>	<u>Test Methods:</u>
Dynamic test (sine vibration)	IEC 60068-2-6; ISO 16750-3, ISO 16750-3 (Superseded 2015); LV 124-2; MBN LV 124-2; VW 80000, VW 80000 (Superseded 2013; 2017); GM: GMW 3172, GMW 3172 (Superseded 2015; 2018); BMW: GS 95024-3-1; PSA B21 7120; Renault: 36-00-802, Renault: 36-00-802 (Superseded 2013) Fiat CS.00056; TPJLR 18.125; CNH ENS0310; MIL STD 810, MIL STD 810 (Superseded B, C, D, E, F, G, Gch1), MIL-STD-167-1 ^a ; ASTM D999-01, ASTM D4169-23; STANAG 4370; AECTP 400; EN 60945; DNV-CG-0339-2021; LLOYD'S TEST SPECIFICACION NUMER 1-2020; RTCA/DO 160, RTCA/DO 160 (Superseded B, C, D, E, F) EUROCAE/ED-14G; ETSI EN 300 019-2; DEF-STAND-00-35

Test:	Test Methods:
Dynamic test (random vibration)	IEC 60068-2-64; ISO 16750-3, ISO 16750-3 (Superseded 2015), ISO 13355; LV 124-2; MBN LV 124-2; VW 80000, VW 80000 (Superseded 2013; 2017); GM: GMW 3172, GMW 3172 (Superseded 2015; 2018) BMW: GS 95024-3-1; PSA B21 7120; Renault: 36-00-802, 36-00-802 (Superseded 2013) Fiat CS.00056; TPJLR 18.125; CNH ENS0310; MIL STD 810, MIL STD 810 (Superseded B, C, D, E, F, G, Gch1); ASTM 4728-17, ASTM D4169-23; STANAG 4370; AECTP 400; ETSI EN 300 019-2; RTCA/DO 160 (Superseded B, C, D, E, F); DEF-STAND-00-35
Dynamic test (shock)	IEC 60068-2-27; ISO 16750-3, ISO 16750-3 (Superseded 2015); LV 124-2; MBN LV 124-2; VW 80000, VW 80000 (Superseded 2013; 2017); GM: GMW 3172, GMW 3172 (Superseded 2015; 2018); BMW: GS 95024-3-1; Renault: 36-00-802, 36-00-802 (Superseded 2013); Fiat CS.00056; TPJLR 18.125; CNH ENS0310; MIL STD 810; STANAG 4370; AECTP 400; RTCA/DO 160, RTCA/DO 160 (Superseded B, C, D, E, F); EUROCAE/ED-14G; ETSI EN 300 019-2; DEF-STAND-00-35
Dynamic test (SRS)	IEC 60068-2-81; MIL STD 810, MIL STD 810 (Superseded B, C, D, E, F, G, Gch1); STANAG 4370; AECTP 400



<u>Test:</u>	<u>Test Methods:</u>
Dynamic test (mixed mode)	IEC 60068-2-64; ISO 16750-3, ISO 16750-3 (Superseded 2015); LV 124-2; MBN LV 124-2; VW 80000, VW 80000 (Superseded 2013; 2017); GM: GMW 3172, GMW 3172 (Superseded 2015; 2018); BMW: GS 95024-3-1; PSA B21 7120; Renault: 36-00-802, 36-00-802 (Superseded 2013); Fiat CS.00056; TPJLR 18.125; CNH ENS0310; STANAG 4370; AECTP 400; MIL STD 810, MIL STD 810 (Superseded B, C, D, E, F, G, Gch1); DEF-STAND-00-35
Combined climatic and dynamic	IEC 60068-2-53; ISO 16750-3, ISO 16750-3 (Superseded 2015); LV 124-2; MBN LV 124-2; VW 80000, VW 80000 (Superseded 2013; 2017), VW 80200; GM: GMW 3172, GMW 3172 (Superseded 2015; 2018); BMW: GS 95024-3-1; PSA B21 7120; Renault: 36-00-802, 36-00-802 (Superseded 2013); Fiat CS.00056; TPJLR 18.125; CNH ENS0310; MIL STD 810, MIL STD 810 (Superseded B, C, D, E, F, G, Gch1); STANAG 4370; AECTP 400
Free fall test	IEC 60068-2-31; ISO 16750-3, ISO 16750-3 (Superseded 2015); LV 124-2; MBN LV 124-2; VW 80000, VW 80000 (Superseded 2013; 2017); GM: GMW 3172, GMW 3172 (Superseded 2015; 2018)



Test:	Test Methods:
Free fall test (continued)	BMW: GS 95024-3-1; PSA B21 7120; Renault: 36-00-802, 36-00-802 (Superseded 2013); Fiat CS.00056; TPJLR 18.125; CNH ENS0310; MIL STD 810; STANAG 4370; AECTP 400; ETSI EN 300 019-2; DEF-STAND-00-35
Acoustic test	ISO 3744, ISO 3746, ISO 11201 V2, ISO 11202 V2, ISO 11204 V2
Temperature exposure (cold)	IEC 60068-2-1; ISO 16750-4, ISO 16750-4 (Superseded 2010); LV 124-2; MBN LV 124-2, MBN 10306; VW 80000, VW 80000 (Superseded 2013; 2017); GM: GMW 3172, GMW 3172 (Superseded 2015; 2018); BMW: GS 95024-3-1; Renault: 36-00-802, 36-00-802 (Superseded 2013); Fiat CS.00056; TPJLR 18.125; CNH ENS0310; 28400NDS00; PV1200; EG-812-22611; MIL-STD-810, MIL STD 810 (Superseded B, C, D, E, F, G, Gch1); AECTP 300; STANAG 4370; RTCA/DO 160, RTCA/DO 160 (Superseded B, C, D, E, F); SAE J903, SAE J1455; PSA B21 7130
Temperature exposure (dry heat)	IEC 60068-2-2; ISO 16750-4, ISO 16750-4 (Superseded 2010); LV 124-2; MBN LV 124-2, MBN 10306; VW 80000, VW 80000 (Superseded 2013; 2017); GM: GMW 3172, GMW 3172 (Superseded 2015; 2018); BMW: GS 95024-3-1; Renault: 36-00-802, 36-00-802 (Superseded 2013); Fiat CS.00056; TPJLR 18.125

<u>Test:</u>	<u>Test Methods:</u>
Temperature exposure (dry heat) (continued)	CNH ENS0310; PSA B21 7130; 26410NDS00, 28400NDS00; PV1200; TPJLR.18.125; EG-812-22611; MIL-STD-810, MIL-STD 810 (Superseded B, C, D, E, F, G, Gch1); AECTP 300; STANAG 4370; RTCA/DO 160, RTCA/DO 160 (Superseded B, C, D, E, F); SAE J903, SAE J1455
Temperature change	IEC 60068-2-14, IEC 60068-2-14 (Superseded 2009); ISO 16750-4, ISO 16750-4 (Superseded 2010); LV 124-2; MBN LV 124-2, MBN 10306; VW 80000, VW 80000 (Superseded 2013; 2017); GM: GMW 3172, GMW 3172 (Superseded 2015; 2018); BMW: GS 95024-3-1; Renault: 36-00-802, 36-00-802 (Superseded 2013); Fiat CS.00056; TPJLR 18.125; CNH ENS0310; PSA B21 7130; 26410NDS00, 28400NDS00; PV1200; TPJLR.18.125; EG-812-22611; MIL-STD-810, MIL-STD 810 (Superseded B, C, D, E, F, G, Gch1); AECTP 300; STANAG 4370; RTCA/DO 160, RTCA/DO 160 (Superseded B, C, D, E, F) SAE J1455
Humidity test	IEC 60068-2-30, IEC 60068-2-38; ISO 16750-4, ISO 16750-4 (Superseded 2010); LV 124-2; MBN LV 124-2; VW 80000, VW 80000 (Superseded 2013; 2017); GM: GMW 3172, GMW 3172 (Superseded 2015; 2018); BMW: GS 95024-3-1; Renault: 36-00-802; Fiat CS.00056; TPJLR 18.125



<u>Test:</u>	<u>Test Methods:</u>
Humidity test (continued)	CNH ENS0310; PSA B21 7130, 7120; 26410NDS00, 28400NDS00; PR 308.2; PV1200; TPJLR.18.125; EG-812-22611; AECTP 300; STANAG 4370; MIL-STD-810, MIL STD 810 (Superseded B, C, D, E, F, G, Gch1)
Damp heat, Steady stage	IEC 60068-2-78; ISO 16750-4, ISO 16750-4 (Superseded 2010); LV 124-2; MBN LV 124-2; VW 80000, VW 80000 (Superseded 2013; 2017); GM: GMW 3172, GMW 3172 (Superseded 2015; 2018); BMW: GS 95024-3-1; Fiat CS.00056; TPJLR 18.125; CNH ENS0310; PSA B21 7130; Renault: 36-00-802
Icing/Freezing rain	MIL STD 810, MIL STD 810 (Superseded B, C, D, E, F, G, Gch1); RTCA/DO 160, RTCA/DO 160 (Superseded B, C, D, E, F)
Ingress test	ISO 16750-4, ISO 16750-4 (Superseded 2010); ISO 20653, ISO 20653 (Superseded 2013); IEC 60529; LV 124-2; MBN LV 124-2, MBN 10306; VW 80000, VW 80000 (Superseded 2013; 2017); GM: GMW 3172, GMW 3172 (Superseded 2015; 2018); BMW: GS 95024-3-1; TPJLR.18.125; Renault: 36-00-802; B21 7130; MIL STD 810 (immersion test), MIL STD 810 (immersion test) (Superseded B, C, D, E, F, G, Gch1); RTCA/DO 160 (Waterproofness Cat Y, R & S), RTCA/DO 160 (Waterproofness Cat Y, R & S) (Superseded B, C, D, E, F);
Cross section inspection Visual inspection X-Ray inspection	IPC TM-650; ASTM E3; IPC A-610; JESD22-A121A; JESD201A



<u>Test:</u>	<u>Test Methods:</u>
Salt Spray test	ISO 9227; ASTM B117; EN 60068-2-11, EN 60068-2-52; ISO 16750-4, ISO 16750-4 (Superseded 2010); VW 80000, VW 80000 (Superseded 2013; 2017); MBN LV 124-2, MBN 10306 GS 95024-3-1; 36-00-802; CS.00056; ENS0310; TPJLR.18.125; SAE J1455
Solar Radiation test	DIN 75220; EN 60068-2-5; ISO 16750-4, ISO 16750-4 (Superseded 2010); ISO 4892-2; MBN LV 124-2, MBN 10306; GS 95024-3-1; CS.00056; ENS0310; TPJLR.18.125; VW 80000, VW 80000 (Superseded 2013; 2017); IEC 62817
Chemical test	ISO 16750-5; MBN LV 124-2, MBN 10306; GS 95024-3-1; CS.00056; TPJLR.18.125; SAE J903
Tensile test	ASTM D638
Compression test	ASTM D395
Mechanical test of electrical connectors	EN 60068-2-21



Accredited Laboratory

A2LA has accredited

LGAI TECHNOLOGICAL CENTER S.A.

Bellaterra, SPAIN

for technical competence in the field of

Mechanical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 *General requirements for the competence of testing and calibration laboratories*. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).



Presented this 19th day of June 2024.

A blue ink signature of Mr. Trace McInturff, written over a horizontal line.

Mr. Trace McInturff, Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 7256.02
Valid to June 30, 2026

For the tests to which this accreditation applies, please refer to the laboratory's Mechanical Scope of Accreditation.