



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017 ¹

CONTINENTAL AUTOMOTIVE SYSTEMS

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Lake Zurich, IL 60047

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MECHANICAL ¹

Valid to: July 31, 2024

Certificate Number: 1419.03

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory at the location listed above, to perform the following Mechanical tests on automotive and electrical, electronic, and mechanical components and assemblies (Environmental Exposure, Vibration, Drop Tests, Humidity, Salt Spray/Fog, High/Low Temperature and Temperature Cycling, Low/High Humidity, Moisture Protection, Mechanical Shock, Operational Cycles, and Noise):

<u>Test Technology:</u>	<u>Test Capabilities ²:</u>	<u>Test Specifications/Standards ³:</u>
Temperature Combined Temperature / Humidity	Temperature Range: (-65 to 165) °C Temperature Transition Rate: up to 10 °C/min Humidity Range: (10 to 98) %RH	Allison TES 384; Chrysler - CS 11982; Ford: CETP 00.00-E-412; GM: GMW 3172; Eaton TES-124; IEC 60068-2-67 Cy; MBN 10 305-1; Nissan 28401NDS01; Nissan 28401NDS01_4; Nissan 28401NDS01_5; Nissan 28401NDS01_7; Nissan 28401NDS01_11; Fiat 9.90111/02; Toyota TSC7561G
Thermal Shock	Temperature Range: (-65 to 165) °C Temperature Transition Rate Between Environments: <10s	Eaton TES-124; Allison TES 384; Chrysler - CS 11982; Ford: CETP 00.00-E-412; GM: GMW 3172; MBN 10 305-1; Nissan 28401NDS01; Nissan 28401NDS01_4; Nissan 28401NDS01_11; Fiat 9.90111/02; Toyota TSC7561

<u>Test Technology:</u>	<u>Test Capabilities ²:</u>	<u>Test Specifications/Standards ³:</u>
Vibration Combined Vibration / Temperature Combined Vibration / Temperature / Humidity	Frequency Range: (5 to 2000) Hz Force Capability: Up To 20 000 lbs. Displacement: Up To 2 Inch, Peak-to-Peak Temperature Range: (-65 to 165) °C Humidity Range: (10 to 98) %RH	Eaton TES-124; Allison TES 384; Chrysler - CS 11982; Ford: CETP 00.00-E-412; GM: GMW 3172; MBN 10 305-1; Nissan 28401NDS01; Nissan 28401NDS01_4; Nissan 28401NDS01_5; Fiat 9.90111/02
Mechanical Shock	Shaker: Up to 100 G Mechanical Shock Machine: Up to 3 000 G	Allison TES 384; Chrysler: CS 11982; Ford: CETP 00.00-E-412; GM: GMW 3172; Eaton TES-124; MBN 10 305-1; Nissan 28401NDS01; Nissan 28401NDS01_4; Nissan 28401NDS01_5; Fiat 9.90111/02; Toyota TSC7561G
Salt Fog / Mist	Per OEM Specifications Referencing ASTM B117	Eaton TES-124; ASTM B117; Chrysler: CS 11982; GM: GMW 3172; IEC 68-2-11; MBN 10 305-1; Nissan 28401NDS01_4; Fiat 9.90111/02
Water Ingress / Spray ⁴	IP x 1 Vertical Water Drips IP x 2 Water Drips (15° inclination) IP x 8k Continuous Submersion in Water IP x 9k High Pressure Steam Jet Cleaning	Chrysler: CS 11982; GM: GMW 3172; MBN 10 305-1; ISO 20653; Ford: CETP 00.00-E-412

<u>Test Technology:</u>	<u>Test Capabilities ²:</u>	<u>Test Specifications/Standards ³:</u>
Drop (Package, Handling, Free Fall)	Per OEM Specification	Eaton TES-124; GM: GMW 3172; MBN 10 305-1; Nissan 28401NDS01_4; Nissan 28401NDS01_5; Fiat 9.90111/02; Ford: CETP 00.00-E-412
Fluid Compatibility	Per OEM Specification	Eaton TES-124; Chrysler: CS 11982; Ford: CETP 00.00-E-412; GM: GMW 3172; Fiat 9.90111/02

¹ Accreditation to ISO/IEC 17025:2017 may be used to demonstrate supplier in-house laboratory conformity to section 7.6.3.1 laboratory requirement as defined in ISO/TS 16949:2009.

² Also using customer supplied test methods directly related to the capabilities and test methods listed above.

³ When the date, edition, version, etc. is not identified in the scope of accreditation, laboratories may use the version that immediately precedes the current version for a period of one year from the date of publication of the standard measurement method, per part C., Section 1 of A2LA R101 - *General Requirements-Accreditation of ISO-IEC 17025 Laboratories*.

⁴ The IP codes reflect the Immersion Protection Code used throughout the automotive industry and adopted in the referenced standards (e.g. ISO 20653).





Accredited Laboratory

A2LA has accredited

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Lake Zurich, IL

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 4th day of May 2021.

A blue ink signature of Mr. Trace McInturff, written in a cursive style.

Mr. Trace McInturff, Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 1419.03
Valid to July 31, 2024
Revised November 28, 2023

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