



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

YAZAKI TESTING CENTER
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 Canton, MI 48187
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MECHANICAL

Valid to: September 30, 2017

Certificate Number: 1804.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following tests:

Environmental Simulation:

- Dust Testing
- Low/High Temperature (-40 to 343)°C
- Humidity (10 to 95)% RH
- Water Spray/Rain Test
- Salt Fog/Mist
- Thermal Shock (-40 to 125)°C
- Thermal Shock with Humidity (-65 to 180)°C @ 65°C, 95% RH Attainable
- Weathering with Xenon Arc
- Flow (1.7 to 34) GPM
- Pressure (2 to 500) kPa
- Tensile (0 to 75) N-m
- Vacuum (-100 to 0) kPa

Vibration: Sine and Random, 3 Axis, Frequency Range from (5 to 2,000) Hz, Force Pound Rating to 13,000 Force Pounds

Mechanical Shock: Up to 100 G's, 11 ms Half Sine (Vertical and Horizontal Axis)

Weathering Tests: Humidity to 95 %R.H. Condensed, Salt Fog, Carbon Arc and Xenon Arc

Test:

Test Method(s)¹:

Air Leak Test / Pressure Vacuum

USCAR-2; GMW3191

Chemical and Fluid Resistance

ES-F8SB-14A067-AA; GMW 14334;
 USCAR-2; GMW 3191

<u>Test:</u>	<u>Test Method(s)¹:</u>
Colorfastness / Applique Humidity / Applique Aging	GM 7469; GMW 14162
Drop (FreeFall)	USCAR-2; GMW 3172
Dust Exposure	GMW 3172
High / Low Temperature / Heat Soak	USCAR-2; USCAR-20; GMW 3172; GMW 3191; IEC 60068-2-2; IEC 60068-2-14
Buzz/Squeak/Rattle Test	GMW 7293; GMW 14011
Mechanical Vibration	USCAR-2; USCAR-20; USCAR-38; GMW 3172; GMW 3191
Mechanical Shock	USCAR-2; USCAR-20; USCAR-38; GMW 3172; GMW 3191
Salt Fog	ASTM B117; USCAR-37; IEC 60068-2-52
Temperature/Humidity	USCAR-2; USCAR-20; USCAR-21; IEC 60068-2-30; IEC 60068-2-38; IEC 60068-2-56; IEC 60068-2-78; GMW 3172; GM 7469; GMW 3191
Tensile Testing	USCAR-2; USCAR-37; USCAR-38; GMW 3172; GMW 3191
Thermal Shock	USCAR-2; USCAR-38; GMW 3172; GMW 3191
Water Test / Water Protection	ISO 20653;
Drip Test	IEC 60529;
Water Spray	IPX0 – IPX8; IPX9k;
High Pressure Spray	GMW3191
Weatherometer (Xenon Arc) Exposure Only	GM 7469; GMW 3172, Method B; SAE J1885; SAE J1960

Including Customer Specifications directly related to the test technologies and within the parameters listed.

On the following types of materials and products:

Automotive Components

¹When the date, revision or edition of a test method standard is not identified on the scope of accreditation, the laboratory is required to be using the current version within one year of the date of publication, per part C., Section 1 of A2LA R101 - *General Requirements- Accreditation of ISO-IEC 17025 Laboratories.*



Accredited Laboratory

A2LA has accredited

YAZAKI TESTING CENTER

Canton, MI

for technical competence in the field of

Mechanical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 *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 8 January 2009).



Presented this 15th day of September 2015.

A handwritten signature in black ink, reading "Peter Abney".

President & CEO
For the Accreditation Council
Certificate Number 1804.01
Valid to September 30, 2017

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