



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

YAZAKI TESTING CENTER  
6800 Haggerty Road  
Canton, MI 48187  
Scott Lytle Phone: 734 983 6012  
Email: [Scott.Lytle@us.yazaki.com](mailto:Scott.Lytle@us.yazaki.com)

MECHANICAL

Valid to: September 30, 2019

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 on automotive components:

**Testing Parameters<sup>1</sup>:**

Environmental Simulation

Low/High Temperature (-40 to 343) °C  
Humidity (10 to 95) % RH  
Thermal Shock (-40 to 125) °C  
Thermal Shock with Humidity (-65 to 180) °C @ 65 °C, 95 % RH Attainable  
Flow (1.7 to 34) GPM  
Pressure (2 to 500) kPa  
Tensile (0 to 10,000) N  
Torque (0 to 75) Nm  
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.

**Test:**

**Test Method(s)<sup>2</sup>:**

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)<sup>2</sup>:</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

<sup>1</sup> Including Customer Specified Methods directly related to the test technologies and within the parameters listed above.

<sup>2</sup> When the date, revision or edition of a test method standard is not identified on the scope of accreditation, the laboratory is expected to be competent in the use of 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 19<sup>th</sup> day of October 2017.

A handwritten signature in black ink, written over a horizontal line.

President and CEO  
For the Accreditation Council  
Certificate Number 1804.01  
Valid to September 30, 2019

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