



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

APTIV KOKOMO TEST LAB¹

ELB Validation Lab
2159 E. Lincoln Rd.
Kokomo, IN 46902

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MECHANICAL

Valid to: December 31, 2020

Certificate Number: 1567.02

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

Test Technology:

**Test Equipment
Capabilities¹:**

Test Method(s)²:

Environmental Testing

(Temperature/Humidity
Static/Cyclic
Thermal Shock
Thermal Exposure
Humidity Exposure)

(-50 to 150) °C, ± 3°C
(10 to 95) %RH, ± 5%
Non-condensing
(10 to 65) °C, ± 3°C
85% RH @ 85° C

GM 9123P (1999);
GMW 3172 (2004, 2005, 2006, 2007,
2008, 2010, 2012, 2014);
Chrysler PF-8982 (1991);
Ford WDS 00.00EA-D11-1 (1999)

Salt Fog/Spray

ASTM B117 (1990 forward);
IEC 60068-2-52 (1996);
CEI/IEC 68-2-11 (1981 forward);
GMW 3172 (2004, 2005, 2006, 2007,
2008, 2010, 2012, 2014);
Chrysler PF-8982 (1991);
Ford WDS 00.00EA-D11-1 (1999)

Dust

GM 9123P (1999);
GM 9110P (1989);
GMW 3172 (2004, 2005, 2006, 2007,
2008, 2010, 2012, 2014);
Chrysler PF-8982 (1991);
Ford WDS 00.00EA-D11-1 (1999)

Fluids Compatibility

GM 9123P (1999);
Ford WDS 00.00EA-D11-1 (1999)
Chrysler PF-8982 (1991)

<u>Test Technology:</u>	<u>Test Equipment Capabilities¹:</u>	<u>Test Method(s)²:</u>
<i>Free-fall / Drop</i>		GM 9123P (1999); GMW 3172 (2004, 2005, 2006, 2007, 2008, 2010, 2012, 2014); Chrysler PF-8982 (1991); Ford WDS 00.00EA-D11-1 (1999)
<i>Gravelometer</i>		SAE J400 (2002)
<i>Leak Detection/Water Tests</i>		GM 9123P (1999); GMW 3172 (2004, 2005, 2006, 2007, 2008, 2010, 2012, 2014); Ford WDS 00.00EA-D11-1 (1999)
<i>Vibration</i>	<u>Shakers:</u> Up to 15,000 lbf Vibration, Maximum Velocity of 63 in/sec, Maximum Displacement of 2 in, Random, Sine, Mixed Mode, and Classical Shock control	GMW 3172 (2004, 2005, 2006, 2007, 2008, 2010, 2012, 2014); ISO 16750-3 (2003, 2007)
<i>Mechanical Shock</i>	<u>Acceleration Range:</u> (10 to 1400) g Half Sine <u>Pulse Duration Range:</u> (0.1 to 20) ms, (peak acceleration dependent) <u>Temperature Chamber:</u> (-50 to 125) °C, ± 3°C,	GMW 3172 (2004, 2005, 2006, 2007, 2008, 2010, 2012, 2014); ISO 16750-3 (2003, 2007)
<i>Squeak & Rattle</i>	Sound Pressure Level, Zwicker Loudness	GM 9123P (1999); GMW 7293 (2001, 2002)

¹Also using customer specific test methods based on the test capabilities and parameters listed above.

²When 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*.

APTIV KOKOMO TEST LAB
KMS Validation Lab
1501 E. Co Rd 200 N.
Kokomo, IN 46901

Test Technology:

**Test Equipment
Capabilities¹:**

Test Method(s)²:

Environmental Testing

(Temperature/Humidity
Static/Cyclic
Thermal Shock
Thermal Exposure
Humidity Exposure)

(-50 to 150) °C, ± 3°C
(10 to 95) %RH, ± 5%
Non-condensing
(10 to 65) °C, ± 3°C
85% RH @ 85° C

GM 9123P (1999);
GMW 3172 (2004, 2005, 2006, 2007,
2008, 2010, 2012, 2014);
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Ford WDS 00.00EA-D11-1 (1999)

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Accredited Laboratory

A2LA has accredited

APTIV KOKOMO TEST LAB

Kokomo, IN

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 17th day of December 2018.

A blue ink signature of the Vice President of Accreditation Services.

Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 1567.02
Valid to December 31, 2020
Revised August 21, 2020

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