



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017¹

ELEMENT MATERIALS TECHNOLOGY DETROIT LLC
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Troy, MI 48084
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MECHANICAL

Valid To: May 31, 2023

Certificate Number: 0098.09

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory at the location listed above, as well as the satellite laboratory listed below, to perform the following tests on automotive components (brackets, structural members, suspension components, seats, body panels and interior parts):

Fatigue durability simulation, static and dynamic testing utilizing the following methods and techniques:

<u>Test and Test Parameters:</u>	<u>Test Method(s)/Standard(s):</u>
<u>Axial and Bending, Monotonic Testing</u> ² Maximum 100,000 lbs Force Maximum 12 in Displacement In Possible Environmental Conditions of (-40 to 180)°F	DVM 0019-ST; RBA 245 (Axle Tech)
<u>Axial and Bending, Fatigue Testing</u> ² 100,000 lbs Force Maximum 12 in. Displacement In Possible Environmental Conditions of (-40 to 180)°F	DVM 0019-ST; SAE J684
<u>Torsional, Monotonic and Fatigue Testing</u> ² Up to 8,000 ft-lb, 20 000 RPM, and 50 HP In Possible Environmental Conditions of (-40 to 180)°F	LP-9301
<u>Environmental</u> ² (-40 to 180)°F Using Various Chambers	CEPT 01-03-L-311
<u>Static Testing</u> ² Static Bending and Torsion Up to 2 in Maximum Displacement Up to 11,000 lb Force Application Up to 64 Channels Acquisition (+/- 10 V)	GM-7454, GM277, GM9842P; GMW-3067, GMW7699, GMW7000, 9123; LP 9606, 9611, 9301, 9533, 9605

<u>Test and Test Parameters:</u>	<u>Test Method(s)/Standard(s):</u>
<u>Multi-Axis Simulation Table(s) (MAST)²</u> Up to 50 Hz Bounce, Vertical, Pitch, Roll, Yaw, Lateral and Longitudinal Inputs	DVM 0009-ST; ATE N 656 (Continental Teves)
<u>Vehicle and Laboratory Data Acquisition³</u>	CETP 00.00-R-395; SLTID51601
<u>Four Post (Wheel) Road Simulator²</u> Up to 50 Hz 55 kip Actuators	GU0902B
<u>Spindle-Coupled Road Simulator (329 LT)²</u> Up to 50 Hz	GMN10124SOP
<u>Spindle-Coupled Road Simulator (329 PC)²</u> Up to 50 Hz	GMN10124SOP

¹ This accreditation covers testing performed at the main laboratory listed above and the satellite laboratory listed below.

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1154 Maplelawn
Troy, MI 48084

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<u>Test and Test Parameters:</u>	<u>Test Method(s)/Standard(s):</u>
<u>Environmental²</u> (-40 to 180)°F Using Various Chambers	CEPT 01-03-L-311
<u>Static Testing²</u> Static Bending and Torsion Up to 2 in Maximum Displacement Up to 11,000 lb Force Application Up to 64 Channels Acquisition (+/- 10 V)	GM 7454, 277, 9842P; GMW 3067, 7699, 7000, 9123; LP 9606, 9611, 9301, 9533, 9605
<u>Vehicle and Laboratory Data Acquisition³</u>	CETP 00.00-R-395; SLTID51601

² Also using customer supplied test methods, or methods developed by the lab and approved by the client, within the parameters listed above.

³ This laboratory performs field testing activities for these tests





Accredited Laboratory

A2LA has accredited

ELEMENT MATERIALS TECHNOLOGY DETROIT, LLC

Troy, MI

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 May 2021.

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

Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 0098.09
Valid to May 31, 2023

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