



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017¹

ELEMENT MATERIALS TECHNOLOGY DETROIT LLC

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MECHANICAL

Valid To: May 31, 2021

Certificate Number: 0375.03

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 three (3) satellite laboratories 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 Testing²</u> Maximum 100 000 lbs Force Maximum 12 in Displacement In Possible Combination with the Environmental Conditions (-40 to 180) F and Up to 95% RH	DVM 0019-ST; RBA 245 (Axle Tech)
<u>Axial and Bending, Fatigue Testing²</u> 100 000 lbs Force Maximum 12 in. Displacement In Possible Combination with the Environmental Conditions (-40 to 180) F and Up to 95% RH	DVM 0019-ST; SAE J684
<u>Torsional, Monotonic and Fatigue Testing²</u> Up to 8 000 ft-lb, 20 000 RPM, and 50 HP In Possible Combination with the Environmental Conditions (-40 to 180) F and Up to 95% RH	LP-9301
<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, GM277, GM9842P; GMW-3067, GMW7699, GMW7000, 9123; LP 9606, 9611, 9301, 9533, 9605



Test and Test Parameters:

Vehicle and Laboratory Data Acquisition

Test Method(s)/Standard(s):

CETP 00.00-R-395;
SLTID51601



<u>Test and Test Parameters:</u>	<u>Test Method(s) Standard(s):</u>
<u>Axial and Bending, Fatigue Testing</u> ² Up to 100,000 lbs of Force Up to 40 in. Displacement in Possible Combination with the Following Environmental Condition (-40 to 180) F and Up to 95% RH	DVM 0019-ST
<u>Torsional, Monotonic and Fatigue Testing</u> ² Up to 8 000 ft-lb., 20 000 RPM, and 50 HP in Possible Combination with the Following Environmental Condition (-40 to 180) F and Up to 95% RH	LP-9301
<u>Thermal Hot Exhaust Furnace</u> ² Exhaust System Testing Up to 2 000 F	CETP: 09.00-E-400
<u>Multi-Axis Shake Table(s)</u> ² Up to 50 Hz Bounce, Vertical, Pitch, Roll, Yaw, Lateral and Longitudinal Inputs (-40 to 180) F and Up to 95% RH	DVM 0009-ST



