



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

ELEMENT MATERIALS TECHNOLOGY KOKOMO  
Indiana Testing and Validation Center  
1815 Touby Pike  
Kokomo, IN 46901  
Gregory Stetkiw Email: [gstetkiw@trialon.com](mailto:gstetkiw@trialon.com); Phone: 810-341-7980  
Website: <http://www.trialon.com>

ACOUSTICS & VIBRATION

Valid To: May 31, 2024

Certificate Number: 1123.07

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following vibration tests using the parameters and methods listed below:

**On the following products or types of products:**

Automotive, Aerospace, Military and Electrical/Electronic/Mechanical components and assemblies.

Test Type	Test Parameters	Test Method/Standard
<p><b>Random Vibration<sup>1</sup></b></p> <p>Single Axis Vibration Testing. Electro-dynamic vibration tables. Controllers using client methods within the following parameters:</p>	<p>Displacement: up to 2.5 in pk-to-pk</p> <p>Force: Up to 15,000 lbf</p> <p>Frequency: 5 Hz to 2,500 Hz</p> <p>Temperature: (-50 to +150) °C. Ramp rate 20 °C/minute max.</p> <p>Humidity: 30% to 95% RH</p> <p>Maximum Acceleration: 140gRMS</p>	<p>Including but not limited to the following: TL-6172; TL-6550; Ford CETP:00.00-E-412; ASTM D4728; FCA CS.00056; Ford CEPT:00:00-E-412; GMW 3172<sup>2</sup>; GMW 3191; Hyundai/KIA ES95400-10; IEC 60068-2-27; IEC 60068-2-64; ISO 16750-3; JDQ 53.3; JIS D 1601; MIL-STD-202 (G, H) methods 201, 214; MIL-STD-81 0(G, H) method 514; Nissan 28401NDS01; SAE J 1455; TSC 7000G; USCAR-2; USCAR-21</p>



Test Type	Test Parameters	Test Method/Standard
<p><b>Sine Vibration<sup>1</sup></b></p> <p><b>Single Axis Vibration Testing. Electro-dynamic vibration tables. Controllers using client methods within the following parameters:</b></p>	<p>Displacement: up to 2.5 in pk-to-pk</p> <p>Force: Up to 15,000 lbf</p> <p>Frequency: 5 Hz to 2,500 Hz</p> <p>Temperature: (-50 to +150) °C. Ramp rate 20 °C/minute max.</p> <p>Humidity: 30% to 95% RH</p> <p>Velocity Continuous: 71 inches/second</p>	<p>Including but not limited to the following: TL-6172; TL-6550; Ford CETP:00.00-E-412; ASTM D4728; FCA CS.00056; Ford CEPT:00:00-E-412; GMW 3172<sup>2</sup>; GMW 3191; Hyundai/KIA ES95400-10; IEC 60068-2-27; IEC 60068-2-64; ISO 16750-3; JDQ 53.3; JIS D 1601; MIL-STD-202 (G, H) methods 204; MIL-STD-810 (G, H) method 514; Nissan 28401NDS01; SAE J 1455; TSC 7000G; USCAR-2; USCAR-21</p>
<p><b>Mechanical Shock<sup>1</sup></b></p> <p>Electro-dynamic vibration tables with mechanical shock controller using client methods within the following parameters:</p> <p>Waveforms: half-sine, saw tooth, and trapezoidal</p>	<p>Displacement: Up to 2.5 in pk-to-pk</p> <p>Force: Up to 40,000 lbf (half-sine)</p> <p>Acceleration: Up to 1500 g (depending on product and fixture design, mass, and pulse duration)</p> <p>Temperature: (-50 to +150) °C Ramp rate 20 °C/minute max.</p> <p>Humidity: 20% to 95% RH</p> <p>Up to 100 g (electrodynamic) (depending on product and fixture design, mass, and pulse duration)</p> <p>Up to 1500 g (shock amplifier-pneumatic) (depending on product and fixture design, mass, and pulse duration)</p>	<p>Including but not limited to the following: Ford CETP:00.00-E-412; ASTM D4728; FCA CS.00056; Ford CEPT:00:00-E-412; GMW 3172<sup>2</sup>; GMW 3191; Hyundai/KIA ES95400-10; IEC 60068-2-27; IEC 60068-2-64; ISO 16750-3; JDQ 53.3; JIS D 1601; MIL-STD-202 (G, H) methods 203, 213; MIL-STD-810 (G, H) method 514; Nissan 28401NDS01; SAE J 1455; TSC 7000G; USCAR-2; USCAR-21</p>



Test Type	Test Parameters	Test Method/Standard
<b>Vibration Test Fixture<sup>1</sup></b>  Transmissibility	Frequency: 5 Hz to 2,500 Hz	GMW 3172

<sup>1</sup> Also using customer specified methods directly related to the types of tests and parameters listed.

<sup>2</sup> This laboratory's scope contains withdrawn or superseded methods. As a clarifier, this indicates that the applicable method itself has been withdrawn or is now considered "historical" and not that the laboratory's accreditation for the method has been withdrawn including but not limited to GMW 3172 (2008, 2010, 2012, 2015, 2018).





# Accredited Laboratory

A2LA has accredited

## ELEMENT MATERIALS TECHNOLOGY KOKOMO

*Kokomo, IN*

for technical competence in the field of

### Acoustics and Vibration 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 11<sup>th</sup> day of April 2022.

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

Vice President, Accreditation Services  
For the Accreditation Council  
Certificate Number 1123.07  
Valid to May 31, 2024  
Revised September 22, 2023



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