



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

TRIALON CORPORATION
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ACOUSTICS AND VIBRATION

Valid To: September 30, 2022

Certificate Number: 1123.08

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following tests using the parameters and methods listed below on the following products and materials: abrasives; automotive components; coatings; glass and glass products; textiles; instrument clusters; and circuit boards.

Test Type	Test Parameters	Test Method/ Standard
Acoustics Testing¹ Semi Anechoic Acoustics Testing Pressure Pulsation Rotational Noise Evaluation Injector Bench Testing	Ambient Noise Level < 20 dBA Sound Pressure Level (dB) and Loudness (Sones): 150 Hz cut off frequency to 20 kHz	Including but not limited to the following TL-6180 TL-6935 TL-7015
Random Vibration¹ Single Axis Vibration Testing. Electro-dynamic vibration tables. Controllors using client methods within the following parameters:	Displacement: up to 2in pk-to-pk Force: Up to 12,000 force-lbs Frequency: 5Hz to 3,000Hz Temperature: (-50 to +150) °C. Ramp rate 20°C/min max. Humidity: 30% to 95% RH	Including but not limited to the following: TL-6172 TL-6550 EPS-24126248 EPS-24138553

Test Type	Test Parameters	Test Method/ Standard
<p>Sine Vibration¹</p> <p>Single Axis Vibration Testing. Electro-dynamic vibration tables. Controllers using client methods within the following parameters:</p>	<p>Displacement: up to 2in pk-to-pk</p> <p>Force: Up to 15,000 force-lbs</p> <p>Frequency: 5Hz to 3,000Hz</p> <p>Acceleration: Up to 100g (depending on product and fixture design & mass)</p> <p>Temperature: (-50 to +150) °C Ramp rate 20°C/min max.</p> <p>Humidity: 30% to 95% RH</p>	<p>Including but not limited to the following: TL-6172 TL-6550 EPS-24126248 EPS-24138553</p>
<p>Mechanical Shock¹</p> <p>Electro-dynamic vibration tables with mechanical shock controller using client methods within the following parameters:</p>	<p>Displacement: Up to 2 in pk-to-pk</p> <p>Force: Up to 26,000 lbf (half-sine)</p> <p>Acceleration: Up to 100g (depending on product and fixture design, mass, and pulse duration)</p> <p>Temperature: (-50 to +150) °C Ramp rate 20°C/m max.</p> <p>Humidity: 20% to 95% RH</p> <p>Up to 100g (electrodynamic) (depending on product and fixture design, mass, and pulse duration)</p>	<p>Including but not limited to the following: EPS-24138553 EPS-24126248</p>
<p>Vibration Transmissibility¹</p>	<p>Frequency: 5Hz to 3,000Hz</p>	<p>GMW3172</p>
<p>Handling Drop¹</p>		<p>Including but not limited to the following: EPS-24126248</p>
<p>Mechanical Impact¹</p>		<p>Including but not limited to the following: TL-6987 EPS-24138553 EPS-24126248</p>
<p>Pendulum Impact¹</p>		<p>Including but not limited to the following: TL-7003 EPS-24138553 EPS-24126248</p>

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



Accredited Laboratory

A2LA has accredited

TRIALON CORPORATION

Auburn Hills, MI

for technical competence in the field of

Acoustics & 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 8th day of September 2020.

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

Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 1123.08
Valid to September 30, 2022

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