



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

U.S. ARMY – DEVCOM GROUND VEHICLE SYSTEMS CENTER -
DURABILITY TEST LABORATORY

6501 E 11 Mile Road
Building 215, MS 157
Detroit Arsenal, MI 48397
Bryan LaRose Phone: 586.282.4912

MECHANICAL

Valid To: January 31, 2024

Certificate Number: 4367.04

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following types of tests on Vehicle Systems, Subsystems, and Components:

Test:	Range:	Test Method¹:
Vehicle Inertial Properties Characterization	Inertia for Pitch, Roll, and Yaw based on:	Vehicle Inertia Parameter Evaluation Rig (VIPER) II Operators Manual
	Vehicle Weight: 3,000 - 100,000 lbf	
	Track Width: Up to 110 in	
	Distance from Front or Rear Axle to:	
	Longitudinal Center of Gravity: Up to 247 in	
Suspension Component Characterization	Center of Gravity Height: Up to 60 in	Customer Specific
	Displacement: Up to 14 in	
	Force: Up to 40,000 lbf	
	Velocity: Up to 240 in/s	
Vibration (Single Axis)	Acceleration: Up to 100 g	MIL-STD-810 - Method 514 Procedure 1 - Method 516 - Method 525 Procedure 1 - Method 527
	Vertical Force: Up to 55,000 lbf	
	Displacement: Up to 20 in	
	Frequency: Up to 5,000 Hz	
	Velocity: Up to 200 in/s	
	Acceleration: Up to 320 g	
Vibration (Multi Axis)	Environment: -60 to 160°F / 5% to 95% RH	MIL-STD-810 - Method 514 Procedure 1 - Method 525 Procedure 1 - Method 527 Procedure 1
	Payload: Up to 1,100 lbf	
	Displacement: ±1 in	
	Angular Displacement: ±4 °	
	Frequency: Up to 500 Hz	
	Velocity: Vertical 31 in/s, Lateral 23 in/s, Longitudinal 23 in/s	
	Acceleration: Vertical 20 G, Lateral 12 G, Longitudinal 14 G	
Ancillary Measurements	Environment: -60 to 160°F	LQP-14-WI01
	Temperature Measurement: -454 to 700°F	
	Displacement Measurement: Up to 30 in	
	Acceleration Measurement: Up to 400 G	
	Force Measurement: Up to 50,000 lbf	

¹This laboratory is also accredited to perform testing using customer specific requirements/methods that are within the ranges listed above.



Accredited Laboratory

A2LA has accredited

U.S. ARMY-DEVCOM-GROUND VEHICLE SYSTEMS CENTER-DURABILITY TEST LABORATORY

Detroit Arsenal, 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 6th day of January 2022.

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

Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 4367.04
Valid to January 31, 2024

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