



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

GREENING TESTING LABORATORIES, INC.  
19465 Mt. Elliott Avenue  
Detroit, MI 48234  
Charles Greening, Jr. Phone: 313 366 7160

MECHANICAL

Valid To: March 31, 2026

Certificate Number: 1575.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following test types on the following products: Brakes, Friction Material, Automatic Transmission Fluid and Components, Clutches, and Wheels.

Accreditation is granted to perform these test types within, but not limited to, the following industries: Aerospace, Automotive, Commercial Vehicles, Military, and Renewable Energy

<u>Test</u>	<u>Typical Test Method(s)<sup>2</sup></u>
<b><u>Dynamometer Testing<sup>1</sup></u></b>	
Torque <sup>1</sup> (1 to 500) lbf/ft (10 to 5,000) lbf/ft (100 to 20,000) lbf/ft	FMVSS TP-121D-01; ECE-R90; SAE J2115, SAE J2521, SAE J2784
Pressure <sup>1</sup> Pneumatic (1 to 200) lbf/in <sup>2</sup> Hydraulic (1 to 2,900) lbf/in <sup>2</sup>	FMVSS TP-121D-01; ECE-R90; SAE J2115, SAE J2521, SAE J2784
Rotational Speed <sup>1</sup> (0.1 to 5) r/min, (1 to 14,000) r/min	FMVSS TP-121D-01; ECE-R90; SAE J1073, SAE J2115, SAE J2521, SAE J2784
Temperature <sup>1</sup> (32 to 1,800) °F	FMVSS TP-121D-01; ECE-R90; SAE J661, SAE J2115, SAE J2521, SAE J2784; VESC V-3
Air Speed <sup>1</sup> (5 to 50) mi/hr	FMVSS TP-121D-01; ECE-R90; SAE J2115, SAE J2521, SAE J2784
Displacement <sup>1</sup> Hydraulic (up to 3 in <sup>3</sup> ) Linear (up to 12 in)	FMVSS TP-121D-01; ECE-R90; SAE J2115, SAE J2521, SAE J2784, SAE J661; VESC V-3
Force <sup>1</sup> (5 to 5,000) lbf	FMVSS TP-121D-01; ECE-R90; SAE J2115, SAE J2521, SAE J2784, SAE J661; VESC V-3

<u>Test</u>	<u>Typical Test Method(s)<sup>2</sup></u>
<b><u>Dynamic Cornering Fatigue Testing</u></b>	SAE J267, SAE J328, SAE J1095
<b><u>Noise Testing</u></b>	
Frequency (10 Hz to 20 kHz)	SAE J2521
Sound Pressure Level (50 to 150) dBA	SAE J2521
<b><u>Hardness Testing</u></b>	
Brinell (3,000 kgf)	ASTM E10; ISO 6506-1; GTL3902
Gogan	SAE J379
Rockwell (HRLW, HRMW, and HRRW only)	ISO 2039-2; JIS D4421; Kenya Standard DKS249
<b><u>Compressibility Testing</u></b>	
Brake Lining Compressive Strain Test (1 to 100,000) N (0.1 to 25,000) Microns	ABNT NBR 9301; GMW 15334; ISO 6310; SAE J2468, SAE J3079; ASTM D695, D790
<b><u>Shear Testing</u></b>	
(1 to 130,000) N	ABNT NBR 5537; Kenya Standard DKS249; ISO 6311, ISO 6312, ISO 6314; SAE J840
<b><u>Specific Gravity</u></b>	SAE J380
<b><u>Swell, Growth, and Dimensional Stability Testing</u></b>	ABNT NBR 5505; ISO 6313; SAE J160
<b><u>Tensile/Compressive Strength Testing</u></b>	
(1 to 130,000) N	ISO 6892
<b><u>Wet Friction Testing</u></b>	SAE J2487, SAE J2488, SAE J2489, SAE J2490, SAE J2964; DEXRON VI (Appendix C, App. D, App. J); MERCON V (Appendix 4, Appendix 5)
<b><u>Vibration Testing</u></b>	
Random: (5 to 3,000) Hz	MIL-STD-810G; GMW15367
Sine: (5 to 2,500) Hz	
6600 lbf	
Shock: ½ Sine Pulse, 32G, 10 ms duration	

<sup>1</sup> The following test methods are also conducted using the testing capabilities listed above:  
D<sup>3</sup>EA®, Kenya Standard DKS249, ISO 26865, ISO 26866, ISO 26867, JASO C-406, JASO C-407,  
JASO C-427, JASO C-441, SAE J2522, SAE J2684, SAE J2690, SAE J2707, SAE J2928, SAE  
J3006, TMC RP-628, U.S. Dept. of Defense ATPD-5324-A, Technical Standard NTC  
COLOMBIAN 1715

<sup>2</sup> Using customer supplied specifications directly related to the types of tests listed above.



# Accredited Laboratory

A2LA has accredited

## GREENING TESTING LABORATORIES, INC.

*Detroit, 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 8<sup>th</sup> day of January 2024.

A blue ink signature of Mr. Trace McInturff, written over a horizontal line.

Mr. Trace McInturff, Vice President, Accreditation Services  
For the Accreditation Council  
Certificate Number 1575.01  
Valid to March 31, 2026

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