



# Accredited Laboratory

A2LA has accredited

**ALPHAUSA**

*Livonia, 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 15<sup>th</sup> day of September 2023.

A blue ink signature of Mr. Trace McInturff, written in a cursive style.

Mr. Trace McInturff, Vice President, Accreditation Services  
For the Accreditation Council  
Certificate Number 1215.01  
Valid to July 31, 2025

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



SCOPE OF ACCREDITATION TO ISO 17025:2017

ALPHAUSA  
33375 Glendale Avenue  
Livonia, MI 48150  
Michael Canepa Phone: 734 466 8869

MECHANICAL

Valid To: July 31, 2025

Certificate Number: 1215.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following tests on fasteners:

| <u>Test(s):</u>  | <u>Test Method(s):</u>                                |
|--|---|
| <b>Mechanical Testing</b>  |   |
| Hardness<br>Rockwell, Rockwell Superficial – B, C, 15N, 15T                                    | ASTM E18  |
| Tensile / Yield / %E   | ASTM E8/E8M, ASTM F606/F606M                          |
| Torque Twist-off Testing   | Ford WE963; ESBM5A-1N265-AA;<br>FCA PF-90346, PS50004 |
| Push Out/Pull Out  | Ford WE963; ESBM5A-1N265-AA;<br>FCA PF-90346, PS50004 |
| Prevailing Torque  | Ford WE955; FCA PF.90284; IFI 545                     |
|  |   |
| <b>Chemical Testing</b>  |   |
| GD OES Spectrometry for Carbon and Low<br>Alloy Steel<br>(Al, C, Cr, Cu, Mn, Mo, Ni, P, S, Si) | ASTM E415   |

I. Dimensional Testing<sup>1</sup>:

| Parameter | Range  | CMC <sup>2</sup> (±)   | Comments / Method  |
|-----------|--|--|--|
| Angle     | Up to 360°<br>Up to 360°   | 0.1°<br>0.01°  | Optical comparator / MIL-STD-120<br>(Canceled 1996) <sup>3</sup><br>CMM machine / MIL-STD-120<br>(Canceled 1996) <sup>3</sup>  |
| Linear    |  |  |  |
| 1D        | (0.028 to 1.00) in<br>Up to 1.0000 in<br>Up to 3.0000 in<br>Up to 1.000 in<br>Up to 6.000 in<br>Up to 1.000 in | 0.0016 in<br>0.0003 in<br>0.0003 in<br>0.0008 in<br>0.0007 in<br>0.0004 in | Pin gages / MIL-STD-120<br>(Canceled 1996) <sup>3</sup><br>Ball micrometer / MIL-STD-120<br>(Canceled 1996) <sup>3</sup><br>Flat micrometer / MIL-STD-120<br>(Canceled 1996) <sup>3</sup><br>Point micrometer / MIL-STD-120<br>(Canceled 1996) <sup>3</sup><br>Caliper / MIL-STD-120<br>(Canceled 1996) <sup>3</sup><br>Dial indicator / MIL-STD-120<br>(Canceled 1996) <sup>3</sup> |
| 2D        | Up to 7.5000 in  | 0.0005 in  | Optical comparator / MIL-STD-120<br>(Canceled 1996) <sup>3</sup>   |
| 3D        | Up to 16.000 in  | 0.000 14 in  | CMM machine / MIL-STD-120<br>(Canceled 1996) <sup>3</sup>  |
| Radii     | (0.02 to 0.7600) in<br>(0.02 to 0.7600) in   | 0.001 in<br>0.000 32 in  | Optical comparator / MIL-STD-120<br>(Canceled 1996) <sup>3</sup><br>CMM machine / MIL-STD-120<br>(Canceled 1996) <sup>3</sup>  |

<sup>1</sup> This laboratory does not offer commercial dimensional testing/calibration services. These tests are not equivalent to that of a calibration.

<sup>2</sup> Calibration and Measurement Capability (CMC) is the smallest uncertainty of measurement that a laboratory can achieve within its scope of accreditation when performing more or less routine measurements of nearly ideal measurement standards or nearly ideal measuring equipment. Calibration and Measurement Capabilities represent expanded uncertainties expressed at approximately the 95 % level of confidence, usually using a coverage factor of  $k = 2$ . The actual measurement uncertainty of a specific measurement performed by the laboratory may be greater than the CMC due to the behavior of the customer's device and to influences from the circumstances of the specific measurement.

<sup>3</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.

