

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

PRIDGEON & CLAY ADVANCED ENGINEERING LAB

50 Cottage Grove SW Grand Rapids, MI 49507

Brandon Luxford Phone: 616 252 2384

MECHANICAL

Valid To: July 31, 2022 Certificate Number: 1516.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following tests <u>on automotive metal stampings</u>, <u>automotive exhaust system components</u>, <u>metal stampings</u>, and <u>automotive structural components</u>, <u>using Chrysler</u>, <u>Ford</u>, <u>GM</u>, <u>Toyota</u>, and tier one accounts specifications and standards:

Test Test Methods Adhesion ASTM B571 (para 8), D3359; FLTM BI 106-01; GMW14829 Air Flow Leak Rate (Up to 100 SLPM @ 80 psi) WI-034 Bend Test ASTM A370 "Bend Test", B571 (para 3) Chemical Optical Emission Spectroscopy (CS, SS) ASTM E415, E1086; WI-035 (Al, B, C, Co, Cr, Cu, Mn, Mo, N, Nb, Ni, P, Pb, S, Si, Ti, Va, W) Coating Weight ASTM A90/A90M, A428/A428M, A924/A924M; Corrosion Creepback ASTM B117, D610, D1654; GM9102P Environmental Humidity ASTM D1735, D2247; WI-028, -029 Salt Spray ASTM B117; FLTM BI 103-01; GM4298P; ISO 9227(NSS); JIS Z2371 High Heat Exposure (Up to 700° F) WI-038 Metallographic Evaluation Case Depth ASTM E3, E407; SAE J423; WI-010, -012, -013, -022 Depth of Decarburization ASTM E3, E407, E1077; WI-010, -012, -013, -022 Grain Size ASTM E3, E112, E407; WI-010, -012, -013, -021 **Inclusion Content** ASTM E3, E45, E340, E407; SAE J422; WI-010, -012, -013, -014 Metallographic Photomicrography ASTM E3, E407, E883; WI-012, -013 Macrotech ASTM E340 Microetch ASTM E3, E407; WI-012 ASTM B487, E3, E407; WI-010, -012, -013, -020 Plating Thickness **Pushout** WI-005, -009 Rockwell Hardness (B, C, N, T) ASTM E18, E140; WI-008

(A2LA Cert. No. 1516.01) 10/13/2020

Page 1 of 2

Test Test Methods

Tensile, Yield, Elongation, n Value, r Value ASTM A370 "Tension Test", E8/E8M, E517, E646;

> WI-026, -027 WI-023, -042

Ford CETP 09.03-E-300; WI-033

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Torque Vibration

High Temperature

(1900° F (1037° C) Up to 180 CFM)

Mechanical Cycling

(Load Driven Up to 1000 lbs max;

Stroke Driven to ± 0.5 in)

Servo Hydraulic

(Closed or Open Loop, Up to 100 Hz)

ASTM E340; GM 6122M; PS-9184; WI-011 Weld Evaluations

I. Dimensional Testing¹

Parameter	Range	CMC ² (±)	Technique / Method
Length ³ - 1D	Up to 8 in	1 in: 0.00059 in 8 in: 0.00146 in	Blue Light System (GOM ATOS) / MIL-STD-120; WS-102

¹ This laboratory offers commercial dimensional testing service only.

² 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.

³ This test is not equivalent to that of a calibration.



Accredited Laboratory

A2LA has accredited

PRIDGEON & CLAY ADVANCED ENGINEERING LAB

Grand Rapids, 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 13th day of October 2020.

Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 1516.01

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