



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

QC METALLURGICAL LABORATORY
17048 215th Street
Davenport, IA 52804
Todd Bloodsworth Phone: 563 386 7827

MECHANICAL

Valid To: July 31, 2027

Certificate Number: 1238.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following tests on metals (or materials):

<u>Test:</u>	<u>Test Methods:</u>
<i>Mechanical</i>	
Hardness (Rockwell: B, C)	ASTM E18
Brinell Hardness (3000 kg)	ASTM E10
Plastic Strain Ratio (r Value)	ASTM E517
Proof (External Threaded)	ASTM F606/F606M
Strain Hardening Exponent (n Value)	ASTM E646
Tension (Complete, Axial ≤ 60 klbs at Room Temp.)	ASTM A370, E8/E8M, F606/F606M
Charpy Impact (-90°F to Room Temp.), (10 to 300) ft-lbs	ASTM A370, E23
Guided Bend Test for Ductility of Welds	ASTM E190; ASME Section IX; AWS D1.1/1.1M (Clause 6, Qualifications)
Weld Operator & Procedure Qualification	ASME Section IX; AWS D1.1/1.1M (Clause 6, Qualifications)
Failure Analysis	ASM Handbook Volume 11: Failure Analysis and Prevention (Using the methods listed above)
<i>Metallographic Evaluation</i>	
Case Depth by Microhardness	SAE J423
Depth of Decarburization	ASTM E1077, F2328
Grain Size	ASTM E112 (Intercept Method Only)
Inclusions	ASTM E45 (Method A)
Microhardness – Knoop/Vickers (HK100, HK500, HV 0.3, HV 1)	ASTM E384
Plating Thickness	ASTM B487
Macroetch	ASTM E381
Microstructure Analysis	ASTM E883
Standard Guide for Quantitative Analysis by Energy-Dispersive Spectroscopy (EDS, SEM)	ASTM E1508 (Standardless Technique)

<u>Test:</u>	<u>Test Methods:</u>
<i>Corrosion</i>	
Salt Spray	ASTM B117
Susceptibility to Inter-Granular Corrosion	ASTM A262 (Method A)
<i>Chemical Spectroscopy</i>	
Optical Emission (Al, C, Co, Cr, Cu, Fe, Mn, Mg, Mo, Nb, Ni, P, Pb, S, Si, Ti, V, Zn, W)	ASTM E415, E1086, E1251, E1999
Portable X-Ray Fluorescence ¹	ASTM E572
General Techniques for Obtaining Infrared Spectra for Qualitative Analysis	ASTM E1252
Standard Test Methods for Rubber-Identification by Infrared Spectrometry	ASTM D3677
Total Fluorine in Coal by the Oxygen Bomb Combustion/Ion Selective Electrode Method	ASTM D3761-10 (Withdrawn 2019)
Fluorine in Water	ASTM D1179

¹This laboratory performs field testing activities for these tests.



Accredited Laboratory

A2LA has accredited

QC METALLURGICAL LABORATORY

Davenport, IA

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 January 2026.

A blue ink signature of Mr. Trace McInturff.

Mr. Trace McInturff, Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 1238.01
Valid to July 31, 2027

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