



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

CONSUMERS ENERGY/LABORATORY SERVICES

135 West Trail Street

Jackson, MI 49201

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MECHANICAL

Valid To: July 31, 2026

Certificate Number: 1097.02

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following tests and analyses on the following materials and components: metals and alloys, steel, cast iron, aluminum, copper, composite materials, automotive components, coatings, fasteners, pipes, hoses, valves, fittings and pressure vessels.

Test:

Test Method:

General Mechanical:

Leeb Hardness Test (Type D)	ASTM A956/A956M
Tensile (Load Range <= 200k lb)	ASTM A370, B557, E8/E8M
Rockwell Hardness Testing (A, BW, C)	ASTM A370, E18
Rockwell Hardness Testing Superficial (15, 30, 45N & 15, 30, 45T)	ASTM A370, E18
Microindentation Hardness Testing (HV 300 g/500 g)	ASTM E384/E92
Microindentation Hardness Testing (HK 300 g/500 g)	ASTM E384/E92
Brinell Hardness (500 kg, 1500 kg & 3000 kg)	ASTM A370, E10
Bend	API 1104

Metallography/Microscopy:

Sample Preparation	ASTM E3
Microstructure	ASM Handbook Vol. 9
Microetching	ASTM E407
Scanning Electron Microscopy with EDS	ASTM E1508
Reflected Light Photomicroscopy	ASTM E883
Field Replica Preparation*	ASTM E1351
Failure Analysis	ASM Handbook Vol. 11 9 th Ed, and the test on scopes 1097.02, .04 & 0.5

PMI:

Portable X-Ray Fluorescence ¹ (Bi, Co, Cr, Cu, Fe, Mn, Mo, Nb, Ni, Pb, Sb, Se, Si, Sn, Ti, V, W, Zn, Zr)	ASTM E1476 (Sec. 7.1)
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¹This laboratory performs field testing activities for these tests.



Accredited Laboratory

A2LA has accredited

CONSUMERS ENERGY/LABORATORY SERVICES

Jackson, 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 9th of August 2024.

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

Mr. Trace McInturff, Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 1097.02
Valid to July 31, 2026

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