



THE AMERICAN ASSOCIATION FOR
LABORATORY ACCREDITATION

ACCREDITED LABORATORY

A2LA has accredited

A-LAB CORPORATION

Dayton, OH

for technical competence in the field of

Mechanical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 *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 18 June 2005*).



Presented this 2nd day of September 2008.

Peter Abney

President

For the Accreditation Council

Certificate Number 0291.01

Valid to July 31, 2010

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

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

A-LAB CORPORATION
3050 Dryden Road
Dayton, OH 45439
Courtney Schum Phone: 937 293 0333

MECHANICAL

Valid To: July 31, 2010

Certificate Number: 0291.01

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

<u>Test</u>	<u>Test Method</u>
Microhardness (Knoop)	ASTM E384
Hardness	
Rockwell (A, B, C, 15N, 30N, 45N, 15T, 30T, 45T)	ASTM E18, E140
Brinell	ASTM E10
Tensile (Tensile strength, Yield strength, Elongation, Reduction of area)	ASTM A370, B557, E8
Impact (Charpy) to 127 ft-lbs	ASTM E23
Salt spray	ASTM B117
Bend	ASTM E290
Weld/Welder qualification	ASME Sec. IX; AWS: D1.1, D1.2, D1.5; AMS 1595, AWS D17.1

Metallographic evaluation

Preparation	ASTM E3
Microetch	ASTM E340
Macroetch	ASTM E407
Decarburization	ASTM E1077; SAE J121, J423

Metallographic evaluation (cont.)

Grain size	ASTM E112, E1181, E930
Case depth	ASTM G79; SAE J423
Banding/Orientation of microstructures	ASTM A247, E1268
Inclusion ratings	ASTM E45 (Methods A, E)
Plating thickness	ASTM B487
IG corrosion susceptibility	ASTM A262 (Methods A, E)
Macrostructure	ASTM E381
Density/Porosity	ASTM B328
SEM	ASTM E766

Failure analysis

Fractography, Failure mode determination, Corrosion evaluations and Weld integrity

Scanning electron microscopy

Materials analysis and characterization



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A2LA has accredited

A-LAB CORPORATION
Dayton, OH

for technical competence in the field of

Chemical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 *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 18 June 2005*).



Presented this 2nd day of September 2008.

Peter Abney

President

For the Accreditation Council

Certificate Number 0291.02

Valid to July 31, 2010

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

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

A-LAB CORPORATION
3050 Dryden Road
Dayton, OH 45439
Courtney Schum Phone: 937 293 0333

CHEMICAL

Valid To: July 31, 2010

Certificate Number: 0291.02

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

<u>Test</u>	<u>Test Method</u>
<u>Spectroscopy</u>	
ICP	A-Lab Procedure OP 1-9
<u>Wet chemistry</u>	
Cr (Titration)	ASTM E353
Cu (Electro deposition)	ASTM E53
Combustion – Carbon, Sulfur	ASTM E1019
Inert gas fusion – Nitrogen	ASTM E1019
Galvanized coating weight	ASTM A90

On the following materials:

Low and medium alloy steels, stainless steels, aluminum alloys, copper alloys and magnesium alloys



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ACCREDITED LABORATORY

A2LA has accredited

A-LAB CORPORATION
Dayton, OH

for technical competence in the field of
Nondestructive Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 *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 18 June 2005*).



Presented this 2nd day of September 2008.



President

For the Accreditation Council

Certificate Number 0291.03

Valid to July 31, 2010

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

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

A-LAB CORPORATION
3050 Dryden Road
Dayton, OH 45439
Courtney Schum Phone: 937 293 0333

NONDESTRUCTIVE

Valid To: July 31, 2010

Certificate Number: 0291.03

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

<u>Test</u>	<u>Test Method</u>
Liquid penetrant (fluorescent)	ASTM E165, E1417, E1418; MIL-STD-6866; P3TF2, P3TF47 (Limited line of sight 45°)
Magnetic particle	AMS 2640J; ASTM E709, E1444; P3TF9, P3TF48 (Line of sight 45°)
Radiography (X-ray)	ASTM E94, E1742, E2104; P3TF5

On the following materials:

Steel, cast iron, aluminum, titanium and magnesium