



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

ST. LOUIS TESTING LABORATORIES, INC.

2810 Clark Avenue

St. Louis, MO 63103

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MECHANICAL

Valid To: July 31, 2017

Certificate Number: 0397.02

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following tests on metallic and non-metallic materials:

**Test Technologies**

**Test Method(s)**

Tension

(Elevated Temperature to 1000 °C)

(Up to 120,000 lbs)

ASTM A370, B557, D412, E8, E21, F606,  
F606M; ASME SA370

Impact

Charpy

ASTM E23, A370; API 5L 1104;  
ASME Section IX; AWS B2.1, D1.1, D1.2,  
D1.5; EN 10045-1

Gardner

Izod

ASTM D2794  
ASTM D256

Tear Strength

ASTM D624 (Sections 4.2.2, 4.2.3 and  
4.2.4)

Flexural Properties

ASTM D790

Metallographic Evaluation

Inclusion Content

Graphite in Cast Iron

Decarburization

ASTM E45 (Method A)

ASTM A247

ASTM E1077 (Sections 7.2, 7.3 and 7.4);

SAE J419 (Sections 4.1 and 4.2)

Grain Size

ASTM E112

Case Depth

SAE J423 (Sections 5.2 and 6.3)

Plating Thickness

ASTM B487

Failure Analysis

ASM Handbook 11

*Peter Meyer*

**Test Technologies****Test Method(s)**

Corrosion Testing

ASTM A262 (Practices A and E), G28,  
G31, G34, G36, G48 (Method A)

Compression Testing

ASTM E9, D695

Shear Testing

ASTM D1002

Hardenability

ASTM A255

Macroetch

ASTM E340; API 5L 1104;  
ASME Section IX; AWS B2.1, D1.1, D1.2,  
D1.5

Hardness

Brinell (500-3000) kg

ASTM A833, E10

Rockwell (A, B, C, 15N, 30N, 45N, 15T, 30T, 45T)

ASTM E18

Durometer (Shore A and D)

ASTM D2240

Pencil

ASTM D3363

Microhardness

ASTM E384

Knoop (100, 500g)

Vickers (100, 500g)

Macrohardness

ASTM E384

Vickers (10kgf)

Leeb Rebound Method

ASTM A956

Bend

API 5L 1104; ASME Section IX;  
AWS B2.1, D1.1, D1.2, D1.5

Taber Abrasion

ASTM D4060

Weld Operator &amp; Procedure Qualification

API 5L 1104; ASME Section IX;  
AWS B2.1, D1.1, D1.2, D1.3, D1.5, D1.6,  
D1.8, D17.1

Olsen Cup

ASTM E643

Coefficient of Friction

ASTM C1028

Coating Weight

ASTM A90, A90M, A309, A428, A428M

Salt Water Spray

ASTM B117, D1654

Humidity Testing

ASTM D2247



# Accredited Laboratory

A2LA has accredited

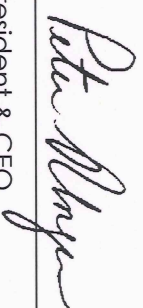
## ST. LOUIS TESTING LABORATORIES, INC.

St. Louis, MO

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 8 January 2009).

Presented this 6<sup>th</sup> day of July 2015.

  
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President & CEO

For the Accreditation Council  
Certificate Number 0397.02  
Valid to July 31, 2017



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