



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

ST. LOUIS TESTING LABORATORIES, INC.  
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MECHANICAL

Valid To: July 31, 2011

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:

<u>Test Technologies</u>	<u>Test Method(s)</u>
Tension (Elevated Temperature to 1000°C) up to 120 k-lbs	ASTM A370, B557, D412, E8, E21, F606; API 5L 1104; ASME Sec. IX; AWS B2.1, D1.1, D1.2, D1.5
Impact Charpy	ASTM E23, A370; API 5L 1104; ASME Sec. IX; AWS B2.1, D1.1, D1.2, D1.5; EN 10045-1
Gardner	ASTM D2794
Izod	ASTM D256
Tear Strength	ASTM D624
Flexural Properties	ASTM D790
Metallographic Evaluation	
Inclusion Content	ASTM E45
Graphite in Cast Iron	ASTM A247
Sample Preparation/Microetching	ASTM B665, E3, E407
Decarburization	ASTM E1077 (7.2, 7.3, 7.4); SAE J419 (4.1, 4.2)
Grain Size	ASTM E112
Case Depth	SAE J423 (5.2, 6.3)
Plating Thickness	ASTM B487
Failure Analysis	ASM Handbook 11, ASTM E2332
Corrosion Testing	ASTM A262 (Practices A & E), G28, G31, G34, G48 (Method A)
Compression Testing	ASTM E9, D695
Shear Testing	ASTM B769
Hardenability	ASTM A255

Test Technologies

Test Method(s)

Macroetch

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

Hardness

Brinell (500-3000) kg

ASTM E10, E110

Rockwell (HRA, HRB, HRC, HR15N, HR30N, HR45N, HR15T, HR30T, HR45T)

ASTM E18

Durometer

ASTM D2240

Pencil

ASTM D3363

Knoop Microhardness (100-500) g

ASTM E384

Leeb Rebound Method

ASTM E956

Bend

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

Taber Abrasion

ASTM D4060

Weld Operator & Procedure Qualification

API 5L 1104; ASME Sec. IX; AWS B2.1, D1.1, D1.2, D1.3, D1.5, D1.6, D1.8, D1.17

Olsen Cup

ASTM E643

Coefficient of Friction

ASTM C1028





The American Association for Laboratory Accreditation

World Class Accreditation

# *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 23rd day of June 2009.



  
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President & CEO  
For the Accreditation Council  
Certificate Number 0397.02  
Valid to July 31, 2011

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