SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

ST. LOUIS TESTING LABORATORIES, INC.
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St. Louis, MO 63103
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MECHANICAL

Valid To: July 31, 2013 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 k-lbs	ASTM A370, B557, D412, E8, E21, F606, F606M; API 5L 1104; ASME Section IX; AWS B2.1, D1.1, D1.2, D1.5
Impact	
Charpy	ASTM E23, A370; API 5L 1104; ASME Section IX; AWS B2.1, D1.1, D1.2, D1.5; EN 10045-1
Gardner	ASTM D2794
Izod	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	ASTM E45
Graphite in Cast Iron	ASTM A247
Sample Preparation/Microetching	ASTM B665, E3, E407
Decarburization	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
Corrosion Testing	ASTM A262 (Practices A and E), G28, G31, G34, G48 (Method A)
Compression Testing	ASTM E9, D695

Test Technologies	**Test Method(s)**
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	
Brinel (500-3000) kg	ASTM A833, E10
Rockwell (HRA, HRBW, HRC, HR15N, HR30N, HR45N, HR15TW, HR30TW, HR45TW)	ASTM E18
Durometer (Shore A and D)	ASTM D2240
Pencil	ASTM D3363
Microhardness	ASTM E384
Knoop (100-500) g	
Vickers (500 g)	
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 & 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

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 15th day of August 2011.

President & CEO
For the Accreditation Council
Certificate Number 0397.02
Valid to July 31, 2013

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