



## Accredited Laboratory

A2LA has accredited

### AMERICAN TESTING SERVICES, LTD.

Miamisburg, 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 laboratory also meets the requirements of any additional program requirements in the Mechanical field. 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 25<sup>th</sup> day of November 2015.

A handwritten signature in black ink, which appears to read 'Peter Abney'. The signature is written over a horizontal line.

President & CEO  
For the Accreditation Council  
Certificate Number 2855.01  
Valid to July 31, 2017

*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

AMERICAN TESTING SERVICES, LTD.  
2000 Old Byers Road  
Miamisburg, OH 45342  
Chris Small Phone: 937 298 9390

MECHANICAL

Valid To: July 31, 2017

Certificate Number: 2855.01

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 metal components in Stainless Steel, Carbon Steel, Alloy Steel, Aluminum, Nickel, and Titanium Alloys.

<u>Test</u>	<u>Test Methods</u>
Hardness (Rockwell) <sup>1</sup> A, B, C, E, F, 15N, 30N, 45N, 15T, 30T, 45T	ASTM E18
Brinell Hardness (500kg, 3000kg) <sup>1</sup>	ASTM E10
Microhardness (Knoop, Vickers) <sup>1</sup> (500g) (100g)	ASTM E384
Tensile Testing of Metals <sup>1</sup> (Room Temperature, (0.1 to 60) klbs)	ASTM A370, B557, E8
Welder Qualification Testing	AMS-STD-1595; API 1104; ASME IX; ASTM A488/A488M;
Metallographic Evaluation	AWS B2.1/B2.1M, B2.2/B2.2M , D1.1/D1.1M, D1.2/D1.2M, D1.3/D1.3M, D1.4/D1.4M, D1.5/D1.5M, D1.6/D1.6M, D1.7/D1.7M, D1.8/D1.8M, D1.9/D1.9M, D9.1/D9.1M, D14.1/D14.1M, D14.3/D14.3M, D14.4/D14.4M, D14.6/D14.6M, D15.1/D15.1M, D17.1/D17.1M,; ISO 15614-1; BS EN287-1, 287- 1(Canceled 12/17/04) <sup>2</sup> , 288-3(Canceled 6/22/04) <sup>2</sup> , 288-49(Canceled 8/28/97) <sup>2</sup> , MIL- STD 1595A(Canceled 6/16/98) <sup>2</sup> , 2219(Canceled 9/04/09) <sup>2</sup> , 1261(Canceled 7/28/03) <sup>2</sup> , NAVSEA S9074-AQ-GIB- 010

Test

Test Methods

Metallographic Evaluation (Metals and Alloys)<sup>1</sup>

Preparation<sup>1</sup>

ASTM E3

Microetch<sup>1</sup>

ASTM E407

ASTM E340, E81

Macroetch<sup>1</sup>

ASTM B487

Plating Thickness<sup>1</sup>

ASTM E112

Grain Size<sup>1</sup>

AMS 2759/7

Case Depth<sup>1</sup>

GE P3TF19

Alpha Case Depth<sup>1</sup>

ASTM E1077; NASM 8831

Decarburization Depth<sup>1</sup>

NASM 8831, ASTM E1268, ASM  
Metals HBK, Vol 9

Microstructure Evaluation<sup>1</sup>

Corrosion Testing<sup>1</sup>

ASTM A262, Practice A, E

Flarability (Tubing)<sup>1</sup>

AMS 5557

Optical Emission Spectroscopy (OES)<sup>1</sup>

ASTM A751, E415, E1086, E1251

Combustion Analysis (Carbon and Sulfur)<sup>1</sup>

ASTM E1019

Scanning Electron Microscopy with Energy Dispersive  
Spectroscopy  
(Materials Analysis and Characterization) SEM/EDS

ASTM E1508;  
ATS QP-10-817

Failure Analysis (Fractography, Failure Mode Determination, Weld  
Integrity) using methods listed above

ATS QP-10-816

<sup>1</sup>This accreditation includes an evaluation of the GEAE S-400 requirements for the tests listed above using the GE AC1.1 checklist.