SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

AMERICAN PIPING INSPECTION METALLURGICAL
& STRUCTURAL INSPECTION LAB
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MECHANICAL

Valid To: December 31, 2023 Certificate Number: 3935.01

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

Test Description	**Test Method(s)**
Mechanical Testing	
Tension	ASTM A370, E8/E8M; ASME Section IX; ASTM B557; API 1104; AWS D1.1, D1.2, D1.3, D1.4, D1.5, D1.6, D17.1; CSA W47.1, CSA W47.2
Bend	ASTM E190; ASTM A370; ATM E290; ASME Section IX; API 1104; AWS D1.1, D1.2, D1.3, D1.4, D1.5, D1.6, D17.1; CSA W47.1, CSA W47.2
Hardness	
Brinell	ASTM 370, E10, E110
Rockwell (B, C)	ASTM 370, E18
Vickers 10kg	ASTM E384, E92
Knoop 500gf	ASTM E92, E384
Impact (-320°F to +80°F) (U and V notch)	ASTM A370, E23; ASME SECT VIII UG-84

Test Description	**Test Method(s)**
Mechanical Testing	
Metallographic Preparation	ASTM E3
Macro Etching	ASTM E340, E381
Micro Etching	ASTM E407
Coating Thickness	ASTM B487
Visual and Macroscopic Evaluation of Welds	AWS B2.1, B2.2, D1.1, D1.2, D1.4, D1.5, D1.6, D17.1, D17.2; API 1104; ASME SECT IX; ASME VIII, Div 1; CSA W47.1, CSA W47.2
Case Depth	SAE J423
Grain Size	ASTM E112
Nick Break	API 1104, AWS B4.0
Visual Examination	ASME SECT IX AWS B2.1, B2.2, D1.1, D1.2, D1.4, D1.5, D1.6, D17.1, D17.2; API 1104; ASME VIII, Div 1
Fillet Weld Fracture	ASME SECT IX, AWS D17.1, AWS D17.2; CSA W47.1, CSA W47.2
Chemical Testing	
Optical Emission Spectrometry (OES), (Carbon and Low-Alloy Steel) (Al, As, B, C, Co, Cr, Cu, Mn, Mo, Nb, Ni, N, P, Pb, S, Si, Sn, Ti, V, W, Zr)	ASTM E415
Optical Emission Spectrometry (OES), (Stainless Steel) (Al, As, B, C, Co, Cr, Cu, Mn, Mo, Nb, Ni, N, P, Pb, S, Si, Sn, Ti, V, W, Zr)	ASTM E1086

Accredited Laboratory

A2LA has accredited

AMERICAN PIPING INSPECTION METALLURGICAL & STRUCTURAL INSPECTION LAB

Catoosa, OK

for technical competence in the field of

Mechanical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 *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 April 2017*).

Presented this 1st day of November 2021.

Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 3935.01
Valid to December 31, 2023

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