



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017¹

ELEMENT CHARLOTTE¹
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CHEMICAL

Valid To: December 31, 2020

Certificate Number: 2335.02

In recognition of the successful completion of the A2LA evaluation process (including compliance to R223 – Specific Requirements – GE Aviation S-400 Accreditation Program), accreditation is granted to this laboratory to perform the following spectroscopy tests on metals and metal products (Aluminum, Cast Iron, Cobalt, Copper, Nickel, Titanium):

Test

Test Method(s)

Combustion & Fusion Analysis
Hydrogen (Titanium only)

ASTM E1447

Carbon/Sulfur Analysis by Combustion

ASTM E1019

Optical Emission Spectroscopy (OES)²
(Al, B, C, Co, Cr, Cu, Fe, Mg, Mn, Mo, Nb, Ni,
P, Pb, S, Si, Sn, Sr, Ta, Ti, V, W, Zn, Zr)

ASTM E415, E1086, E1251;
SOP 12.00

¹ *This laboratory meets A2LA R104 – General Requirements: Accreditation of Field Testing and Field Calibration Laboratories for this test.*

² *The laboratory is accredited for the test methods listed above. The accredited test methods are used in determining compliance with the material specifications listed below; however, the inclusion of these material specifications on this Scope does not confer laboratory accreditation to the material specifications. Inclusion of these material specifications on this Scope also does not confer accreditation for every method embedded within the specification. Only the methods listed above on this Scope are accredited.*

Test	Material Specification
Optical Emission Spectroscopy (OES) (Al, B, C, Co, Cr, Cu, Fe, Mg, Mn, Mo, Nb, Ni, P, Pb, S, Si, Sn, Sr, Ta, Ti, V, W, Zn, Zr)	API 5LD

³ *This laboratory also meetings the requirements of ISO/IEC 17025:2005.*



Accredited Laboratory

A2LA has accredited

ELEMENT CHARLOTTE

Charlotte, NC

for technical competence in the field of

Chemical 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 laboratory also meets the requirements of R223 – Specific Requirements – GE Aviation S-400 Accreditation Program. 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 10th day of December 2018.

A handwritten signature in black ink, written over a horizontal line.

President and CEO
For the Accreditation Council
Certificate Number 2335.02
Valid to December 31, 2020

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