



MODERN INDUSTRIES, INC
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CHEMICAL

Valid To: January 31, 2024

Certificate Number: 2949.02

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 tests on steel, stainless steel, cast iron, copper alloys, aluminum, nickel & cobalt alloys, titanium, miscellaneous metals, forgings, castings, machined components, billets, bars, ingot, powdered metals, fasteners, chain, and cable: aircraft components, automotive components, metals and alloys:

Test:

Test Methods:

Elemental Analysis (Combustion or Fusion)
(C, H, N₂, O₂, S)

Carbon in Steel, Iron Nickel & Cobalt Alloys	ASTM E1019
Oxygen in Steel, Iron Nickel & Cobalt Alloys	ASTM E1019
Oxygen in Copper & Copper Alloys	ASTM E2575
Oxygen in Titanium & Titanium Alloys	ASTM E1409
Nitrogen in Steel, Iron Nickel & Cobalt Alloys	ASTM E1019
Nitrogen in Titanium & Titanium Alloys	ASTM E1937 (Withdrawn 2005) ¹
Sulfur in Steel, Iron Nickel & Cobalt Alloys	ASTM E1019
<u>Hydrogen</u> in Titanium & Titanium Alloys	ASTM E1447

OES Analysis

(Al, As, B, Be, C, Co, Cr, Cu, Fe, Mg, Mn, Mo, Nb,
Ni, P, Pb, S, Sb, Si, Sn, Sr, Ti, V, W, Zn, Zr)

Carbon & Low Alloy Steel	ASTM E415
Stainless Steel	ASTM E1086
Cast Iron	ASTM E1999
Aluminum & Aluminum Alloys	ASTM E1251
Cobalt Alloys	ASTM E1473
Metals in Liquid (Ag and Cu Only)	EPA 200.7
ICP (OES) (Cu, Sn, Pb, Zn, Ni, Fe, Mn, Si, Al, P, Sb, As, Ag, Cr, Mo, Nb, Ta, W, Ti)	ASTM E2594

¹This laboratory's scope contains withdrawn or superseded methods. As a clarifier, this indicates that the applicable method itself has been withdrawn or is now considered "historical" and not that the laboratory's accreditation for the method has been withdrawn.



Accredited Laboratory

A2LA has accredited

MODERN INDUSTRIES, INC.

Erie, PA

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 S400 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 29th day of October 2021.

A blue ink signature of the Vice President of Accreditation Services.

Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 2949.02
Valid to January 31, 2024

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