CERTIFICATE OF ACCREDITATION

This is to attest that

CERTRONIXWEST CALIBRATION, INC.

7906 WENDOVER DRIVE
RIVERSIDE, CALIFORNIA 92509, U.S.A

Calibration Laboratory CL-110

has met the requirements of AC204, *IAS Accreditation Criteria for Calibration Laboratories*, and has demonstrated compliance with ISO/IEC Standard 17025:2017, *General requirements for the competence of testing and calibration laboratories.* This organization is accredited to provide the services specified in the scope of accreditation.

Effective Date December 31, 2022

Expiration Date November 1, 2025

President

Visit www.iasonline.org for current accreditation information.

SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

3060 Saturn Street, Suite 100, Brea, California 92821, U.S.A. | www.iasonline.org

CERTRONIXWEST CALIBRATION, INC.

www.certronixwestcalibration.com

Contact Name John L. Smith **Contact Phone** +1-951-788-9949

Accredited to ISO/IEC 17025:2017 *Effective Date December 31, 2022*

CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*

MEASURED QUANTITY or DEVICE TYPE CALIBRATED	RANGE	UNCERTAINTY[1,2] (±)	CALIBRATION METHOD OR PROCEDURE, STANDARD EQUIPMENT (OPTIONAL)
Dimensional			
Optical Comparator Calibration – 20X	0 in to 12 in	0.006 in	CCP-08
Mechanical			
Hardness Testers - Rockwell	“HRA” Scale “HRBW” Scale “HRC” Scale “HREW” Scale “HRFW” Scale “HRHW” Scale “HRKW” Scale “HR15N” Scale “HR15TW” Scale “HR15YW” Scale “HR30N” Scale “HR30TW” Scale “HR45N” Scale “HR45TW” Scale	0.25 HRA 0.26 HRBW 0.21 HRC 0.28 HREW 0.27 HRFW 0.45 HRHW 0.45 HRKW 0.25 HR15N 0.30 HR15TW 0.28 HR15YW 0.29 HR30N 0.28 HR30TW 0.29 HR45N 0.42 HR45TW	Indirect Verification, CCP-05, ASTM E18-19
Hardness Testers - Vickers	Up to 750 HV	0.75 HV	ASTM E384-17, ASTM E92-17
Hardness Testers - Knoop	210 HK to 750 HK	2.6 HK	
Hardness Testers - Brinell	90 HBW to 460 HBW	3.5 HBW	Indirect Verification, CCP-06, ASTM E10
Hardness Testers - Leeb	700 HLD to 790 HLD	9.5 HLD	Indirect Verification, CCP-07, ASTM E384-17, ASTM A956-17a

** If information in this CMC is presented in non-SI units, the conversion factors stated in NIST Special Publication 811 “Guide for the Use of the International System of Units (SI)” apply.*

MEASURED QUANTITY or DEVICE TYPE CALIBRATED	RANGE	UNCERTAINTY[1,2] (±)	CALIBRATION METHOD OR PROCEDURE, STANDARD EQUIPMENT (OPTIONAL)
Electrical – DC/LF			
Electrical Conductivity Testers	15.75 % 29.82 % 35.62 % 42.40 % 61.14 %	0.33 % 0.31 % 0.36 % 0.37 % 0.37 %	Eddy current, CCP-04, Boeing Specification BAC5651

[1]The uncertainty covered by the Calibration and Measurement Capability (CMC) is expressed as the expanded uncertainty having a coverage probability of approximately 95 %. It is the smallest measurement uncertainty that a laboratory can achieve within its scope of accreditation when performing calibrations of a best existing device. The measurement uncertainty reported on a calibration certificate may be greater than that provided in the CMC due to the behavior of the calibration item and other factors that may contribute to the uncertainty of a specific calibration.

[2]When uncertainty is stated in relative terms (such as percent, a multiplier expressed as a decimal fraction or in scientific notation), it is in relation to instrument reading or instrument output, as appropriate, unless otherwise indicated.