



# CERTIFICATE OF ACCREDITATION

## ANSI-ASQ National Accreditation Board

500 Montgomery Street, Suite 625, Alexandria, VA 22314, 877-344-3044

This is to certify that

**Brian Service and Calibration, LLC**  
**15255 Gulf Freeway #188B**  
**Houston, TX 77034**

has been assessed by ANAB  
and meets the requirements of international standard

## ISO/IEC 17025:2005

and national standard

## ANSI/NCSL Z540-1-1994

while demonstrating technical competence in the field of

## CALIBRATION

Refer to the accompanying Scope of Accreditation for information regarding the types of calibrations to which this accreditation applies.

AC-1181

Certificate Number

  
ANAB Approval

Certificate Valid: 04/05/2016-04/22/2018  
Version No. 003 Issued: 04/05/2016



This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005. 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 January 2009).



# ANSI-ASQ National Accreditation Board

## SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005 & ANSI/NCSL Z540-1-1994

### Brian Service and Calibration

15255 Gulf Freeway #188B, Houston TX 77034

Kris Brian Phone: 281 922 5755

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www.b-cal.com

### CALIBRATION

Valid to: April 22, 2018

Certificate Number: AC-1181

#### I. Mechanical

PARAMETER / EQUIPMENT	RANGE	CALIBRATION AND MEASUREMENT CAPABILITY [EXPRESSED AS UNCERTAINTY(±)]	REFERENCE STANDARD OR EQUIPMENT	METHOD(S)
Brinell Hardness Testers	(500 to 3 000) kg-f	0.23 % of applied load	Proving ring Hardness test blocks	ASTM E-10 ASTM E-110
Rockwell Hardness Testers	(39.5 to 95) HRA (35 to 100) HRB (20 to 65) HRC (75 to 100) HRE (41.5 to 84.4) HRN (15 to 83.1) HRT	0.20 HRA 0.52 HRB 0.34 HRC 0.62 HRE 0.25 HRN 0.35 HRT	Hardness test blocks	ASTM E-18 ASTM E-110
UCI Ultrasonic Contact Impedance Tester	(20 to 65) UCI (HRC)	0.34 UCI (HRC)	Hardness test blocks	ASTM A-1038
Knoop Hardness Testers	(120 to 920) HK	1.87 HK	Hardness test blocks	ASTM E-384
Vickers Hardness Testers	(107 to 940) HV	1.51 HV	Hardness test blocks	ASTM E-384
Hardness Testers Leeb (Rebound)	(300 to 900) HL	9.67 HL	Hardness test blocks	ASTM A-956



PARAMETER / EQUIPMENT	RANGE	CALIBRATION AND MEASUREMENT CAPABILITY [EXPRESSED AS UNCERTAINTY(±)]	REFERENCE STANDARD OR EQUIPMENT	METHOD(S)
Creep/Stress Testers	(500 to 5 000) lb	1 % of applied load	Proving ring	ASTM E-4
Applied Mass Dial Indicators Timing	Up to 20 lb Up to 0.02 in Up to 24 hr	0.003 lb 140 μin 0.26 s	Precision Scale Micrometer Timer and NIST clock	ASTM E-139 ASTM E-83 Sec.4.1 Customer Specifications
Optical Verification Brinell Microscopes Microscopes - General	Up to 10 mm	4.5 μm	Stage Micrometer	ASTM E-10 or Manufacturer Specifications

**Notes:**

1. Calibration and Measurement Uncertainties (Expanded Uncertainty) are based on approximately a 95% confidence interval, using a coverage of  $k=2$ .
2. This scope applies to in-laboratory and field (on-site) calibrations. Since field (on-site) conditions are typically more variable than those in the laboratory, larger measurement uncertainties are expected in the field (on-site) than what is reported on the accredited scope.
3. This scope is formatted as part of a single document including the Certificate of Accreditation No. AC-1181.

  


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 Vice President

