PERRY JOHNSON LABORATORY ACCREDITATION, INC.

Certificate of Accreditation

Perry Johnson Laboratory Accreditation, Inc. has assessed the Laboratory of:

Wayac Scales & Calibration, Inc.

2899 Hilliard Rome Road, Hilliard, OH 43026

(Hereinafter called the Organization) and hereby declares that Organization is accredited in accordance with the recognized International Standard:

ISO/IEC 17025:2017

This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system
(as outlined by the joint ISO-ILAC-IAF Communiqué dated April 2017):

Dimensional, Electrical, Mechanical, Mass, Force, Weighing, Time & Frequency, Thermodynamic Calibration

(As detailed in the supplement)

Accreditation claims for such testing and/or calibration services shall only be made from addresses referenced within this certificate. This Accreditation is granted subject to the system rules governing the Accreditation referred to above, and the Organization hereby covenants with the Accreditation body's duty to observe and comply with the said rules.

For PJLA:

Tracy Szerszen
President

Perry Johnson Laboratory Accreditation, Inc. (PJLA)
755 W. Big Beaver, Suite 1325
Troy, Michigan 48084

Initial Accreditation Date:	*Issue Date:*	*Expiration Date:*
April 08, 2003	August 04, 2023	August 31, 2025

Accreditation No.:	*Certificate No.:*
59301	L23-588

The validity of this certificate is maintained through ongoing assessments based on a continuous accreditation cycle. The validity of this certificate should be confirmed through the PJLA website: www.pjlabs.com

Certificate of Accreditation: Supplement

Wayac Scales & Calibration, Inc.
2899 Hilliard Rome Road, Hilliard, OH 43026
Contract Name: Tim Jarrell Phone: 614-529-4556

Accreditation is granted to the facility to perform the following calibrations:

Mass, Force, and Weigh Devices

MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE OR NOMINAL DEVICE SIZE AS APPROPRIATE	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (±)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED
Analytical Balances FO	100 mg to 220 g	$(2.00 \times 10^{-4} + 2.00 \times 10^{-6}$ Wt) g	Class 1 Weights CP-022
Top Load Balances FO	220 g to 32 kg	$(-5.80 \times 10^{-3} + 1.04 \times 10^{-4}$ Wt) g	F Class Weights CP-047
Bench Scales FO	0.5 lb to 600 lb	$(5.80 \times 10^{-5} + 2.84 \times 10^{-4}$ Wt) lb	
Floor Scales FO	500 lb to 10 000 lb	$(3.40 \times 10^{-4}$ Wt) lb	
Tank / Hopper Scales O	10 000 lb to 40 000 lb	$(-2.00 + 3.40 \times 10^{-4}$ Wt) lb	
Truck Scales O	40 000 lb to 200 000 lb	$(1.93 + 2.19 \times 10^{-4}$ Wt) lb	
Force Gage Tension & Compression FO	0.5 lb to 1 000 lb	0.22 % of applied load	Indicator with NTEP Approved Load Cells CP-049
	50 lb to 10 000 lb	0.22 % of applied load	

Mechanical

MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE OR NOMINAL DEVICE SIZE AS APPROPRIATE	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (±)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED
Indirect Verification of Rockwell Hardness Testers HRB FO	15 HRB to 31 HRB	1 HRB	Certified Rockwell Test Blocks ASTME18
	31 HRB to 71 HRB		
	71 HRB to 100 HRB		
Indirect Verification of Rockwell Hardness Testers HRC FO	20 HRC to 40 HRC	1 HRC	
	40 HRC to 60 HRC		
	60 HRC to 70 HRC		
Electronic or Dial Pressure Gages, Commercial Grade, Medium Grade and Test Grade Transducers Stated values are gage pressure FO	0.45 psi to 300 psi	0.027 psi	Druck PM620-300 CP-038-1, CP-038-2
	301 psi to 3 000 psi	0.35 psi	Druck PM620-3000 CP-038-1, CP-038-2
	3 001 to 10 000 psi	2.0 psi	Druck PM620-10000 CP-038-1, CP-038-2
Magnahelics and Photohelics Gages FO	0.13 in H_2O to 1 in H_2O	0.015 in H_2O	Manometers CP-038-4
	0.135 in H_2O to 4 in H_2O	0.045 in H_2O	
Vacuum Gauge FO	-27 inHg to 0 inHg	0.055 inHg	Druck PM620-300 CP-038-1, CP-038-2

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Torque Wrenches, Torque Drivers [FO]	40 ozf·in to 400 ozf·in	2.9 ozf·in	Torque Standards CP-031
	5 lbf·in to 50 lbf·in	0.95 lbf·in	
	25 lbf·in 250 lbf·in	1.1 lbf·in	
	100 lbf·in to 1 000 lbf·in	4.6 lbf·in	
	720 lbf·in to 7 200 lbf·in	48 lbf·in	
Durometers [FO] Direct Verification of Indentor Extension Types A, B, C, D, DO, O, OO	0.096 in to 0.1 in	610 µin	Gage Blocks CP-051
Durometers [FO] Indentor Spring Force Types A, B, C, D, DO, O, OO	0 kg to 4.53 kg	2 g	Electronic Force Gage CP-051

Dimensional

MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE OR NOMINAL DEVICE SIZE AS APPROPRIATE	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (±)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED
Calipers [FO]	0.05 in to 36 in	(111 + 5L) µin	Gage Blocks Length Standards Ring Gage CP-004
Height Gages [FO]	0.05 in to 36 in	(445 + 1L) µin	Gage Blocks Length Standards CP-013
Outside Micrometers [FO]	0.05 in to 36 in	(62 + 3L) µin	Gage Blocks Length Standards CP-016
Depth Micrometers [FO]	0.05 in to 12 in	(70 + 6L) µin	
Inside Micrometers [FO]	0.05 in to 36 in	(45 + 4L) µin	
Indicators [FO]	Up to 2 in	(30 + 6L) µin	Indicator Calibrator CP-007
Test Indicators [FO]	Up to 0.2 in	(26 + 20L) µin	
Pin Gages [F]	0.011 in to 1 in	34 µin	Super-Micrometer with Grade 1 Gage Blocks CP-001
Smooth Plug Gages [F]	0.011 in to 5 in	34 µin	

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Thread Plug Gages / Pitch Diameter [F]	0-80 in to 5-5 in	51 µin	Super-Micrometer with Thread Wires CP-001
Smooth Ring Gages [F]	0.012 5 in to 3 in	43 µin	Super-Micrometer with Grade 1 Gage Blocks CP-001
Rules & Tapes [FO] Error of Indication	Up to 360 in	0.016 in	Master Ruler Gage Blocks CP-046
Surface Plates [FO] Repeat Reading	Up to 0.02 in	50 µin	Repeat-O-Meter T.O. 33K6-4-33-1
Surface Plates [FO] Flatness	Up to 68 in DL	30 µin	Planekator Grade AA 24" T.O. 33K6-4-33-1
Protractors [FO]	Up to 90°	0.20°	Gage Blocks, Surface Plate and Sine Bar T.O.33K6-4-1597-1
Radius Gages [F]	Up to 1 in	$(2.02 \times 10^{-3} + -1.02 \times 10^{-3} L)$	Optical Comparator Radius Overlays NAVAIR 17-20MD-43

Electrical

MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE OR NOMINAL DEVICE SIZE AS APPROPRIATE	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (±)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED
Equipment to Source DC Voltage [FO]	0.2 V to 2.00 V	0.003 % of reading + 7 µV	Transmille 3041A GIDEP
	2.1 V to 20.0 V	0.002 5 % of reading + 480 µV	
	21 V to 200 V	0.003 % of reading + 4 300 µV	
	201 V to 1 000 V	0.003 % of reading + 4 800 µV	
Equipment to output AC Voltage (at listed frequencies) [FO]			
10 Hz to 44 Hz	20 mV to 202 mV	0.2 % of reading + 51 µV	
45 Hz to 999 Hz	20 mV to 202 mV	0.04 % of reading + 88 µV	
1 kHz to 19.999 kHz	20 mV to 202 mV	0.09 % of reading + 38 µV	
20 kHz to 99.999 kHz	20 mV to 202 mV	0.3 % of reading + 71 µV	
100 kHz to 500 kHz	20 mV to 202 mV	0.8 % of reading + 1 281 µV	

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Equipment to output AC Voltage (at listed frequencies) FO			Transmille 3041A GIDEP
10 Hz to 44Hz	0.2 V to 2.02 V	0.2 % of reading + 363 µV	
45 Hz to 999 Hz	0.2 V to 2.02 V	0.04 % of reading + 152 µV	
1 kHz to 19.999 kHz	0.2 V to 2.02 V	0.09 % of reading + 194 µV	
20 kHz to 99.999 kHz	0.2 V to 2.02 V	0.25 % of reading + 2 303 µV	
100 kHz to 500 kHz	0.2 V to 2.02 V	0.45 % of reading + 4 032 µV	
Equipment to output AC Voltage (at listed frequencies) FO			
10 Hz to 44 Hz	2 V to 20.2 V	0.2 % of reading + 7 000 µV	
45Hz to 999 Hz	2 V to 20.2 V	0.035 % of reading + 2 921 µV	
1 kHz to 19.999 kHz	2 V to 20.2 V	0.07 % of reading + 1 463 µV	
20 kHz to 100 kHz	2 V to 20.2 V	0.22 % of reading + 37 300 µV	
Equipment to output AC Voltage (at listed frequencies) FO			
30 Hz to 44 Hz	20 V to 202 V	0.06 % of reading + 52 mV	
45 Hz to 999 Hz	20 V to 202 V	0.04 % of reading + 53 mV	
1 kHz to 20 kHz	20 V to 202 V	0.09 % of reading + 257 mV	
Equipment to output AC Voltage (at listed frequencies) FO			
30 Hz to 45 Hz	200 V to 1 020 V	0.06 % of reading + 256 mV	
45 Hz to 999 Hz	200 V to 1020 V	0.04 % of reading + 163 mV	
1 kHz to 10 kHz	200 V to 1 020 V	0.15 % of reading + 472 mV	
Equipment to output DC Current FO	20 µA to 202 µA	0.01 % of reading + 21 µA	
	0.2 mA to 2.02 mA	0.008 % of reading + 29 µA	
	2 mA to 20.2 mA	0.005 % of reading + 90 µA	
	20 mA to 202 mA	0.008 % of reading + 1 281 µA	
	0.2 A to 2.02 A	0.015 % of reading + 1 005 µA	
	2 A to 30 A	0.04 % of reading + 2 660 µA	
	19 A to 1 500 A	1 % of reading	Transmille 3041A w / Coil GIDEP

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Equipment to Output AC Current (at the listed frequencies) FO			Transmille 3041A GIDEP
10 Hz to 44 Hz	20 µA to 202 µA	0.2 % of reading + 60 µA	
45 Hz to 999 Hz	20 µA to 202 µA	0.07 % of reading + 59 µA	
1 kHz to 10 kHz	20 µA to 202 µA	0.8 % of reading + 62 µA	
Equipment to Output AC Current (at the listed frequencies) FO			
10 Hz to 44 Hz	0.2 mA to 2.02 mA	0.2 % of reading + 53 µA	
45 Hz to 999 Hz	0.2 mA to 2.02 mA	0.06 % of reading + 33 µA	
1 kHz to 10kHz	0.2 mA to 2.02 mA	0.7 % of reading + 15 µA	
Equipment to Output AC Current (at the listed frequencies) FO			
10 Hz to 44 Hz	2 mA to 20.2 mA	0.2 % of reading + 48 µA	
45 Hz to 999 Hz	2 mA to 20.2 mA	0.06 % of reading + 28 µA	
1 kHz to 10 kHz	2 mA to 20.2 mA	0.5 % of reading + 30 µA	
Equipment to Output AC Current (at the listed frequencies) FO			
10 Hz to 44 Hz	20 mA to 202 mA	0.2 % of reading + 510 µA	
45 Hz to 999 Hz	20 mA to 202 mA	0.06 % of reading + 330 µA	
1 kHz to 5 kHz	20 mA to 202 mA	0.6 % of reading + 1 250 µA	
Equipment to Output AC Current (at the listed frequencies) FO			
30 Hz to 44Hz	2 A to 30 A	0.2 % of reading + 62 400 µA	
45 Hz to 99 Hz	2 A to 30 A	0.09 % of reading + 31 900 µA	
100 Hz to 5 kHz	2 A to 30 A	0.3 % of reading + 4 000 µA	
Equipment to Output AC Current (at the listed frequencies) FO			Transmille 3041A w/Coil
45 Hz to 65 Hz	19 A to 1 500 A	1 % of reading	
65 Hz to 440 Hz	19 A to 1 500 A	1.2 % of reading	
Equipment to Output Resistance FO	Up to100 Ω	0.005 % of reading + 0.0052 Ω	Transmille 3041A GIDEP
	100 Ω to 1 kΩ	0.004 % of reading + 0.0407 Ω	
	1 kΩ to 10 kΩ	0.004 % of reading + 0.407 Ω	
	10 kΩ to 100 kΩ	0.004 % of reading + 4.075 Ω	
	100 kΩ to 1 MΩ	0.01 % of reading + 121 Ω	
	1 MΩ to 10 MΩ	0.035 % of reading + 449 Ω	
	10 MΩ to 100 MΩ	0.5 % of reading + 6 850 Ω	

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Equipment to Output Frequency [FO]	10 Hz to 500 kHz	0.4 % of reading	Transmille 3041A GIDEP
Equipment to Measure DC Voltage [FO]	100 mV to 1 000 V	0.014 % of reading	HP 34401A GIDEP
Equipment to Measure AC Voltage (at listed frequencies) [FO]			
5 Hz to 10 Hz	10 mV to 100 mV	0.048 % of reading	
10 Hz to 20 kHz	10 mV to 100 mV	0.039 % of reading	
20 kHz to 50 kHz	10 mV to 100 mV	0.041 % of reading	
50 kHz to 100 kHz	10 mV to 100 mV	0.22 % of reading	
100 kHz to 300 kHz	10 mV to 100 mV	0.5 % of reading	
Equipment to Measure AC Voltage (at listed frequencies) [FO]			
10 Hz	100 mV to 1 V	0.45 % of reading	
20 kHz	100 mV to 1 V	0.177 % of reading	
Equipment to Measure AC Voltage (at listed frequencies) [FO]			
50 kHz	100 mV to 1 V	0.188 % of reading	
100 kHz	100 mV to 1 V	0.704 % of reading	
Equipment to Measure AC Voltage (at listed frequencies) [FO]			
50 kHz	1 V to750 V	1.6 % of reading	
100 kHz	1 V to 750 V	1.54 % of reading	
Equipment to Measure DC Current [FO]	Up to 10 mA	1.3 % of reading	
	10 mA to 100 mA	0.78 % of reading	
	100 mA to 1 A	0.174 % of reading	
	1 A to 3 A	0.93 % of reading	
Equipment to Measure AC Current (at listed frequencies) [FO]			
10 Hz	Up to 1 A	0.81 % of reading	
5 kHz	Up to 1 A	2 % of reading	
Equipment to Measure AC Current (at the listed frequencies) [FO]			
10 Hz	1 A to 3 A	1.29 % of reading	
5 kHz	1 A to 3 A	2.38 % of reading	

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Equipment to Measure Resistance FO	Up to 100 Ω	1.74 % of reading	HP 34401A GIDEP
	100 Ω to 1 kΩ	0.014 % of reading	
	1 kΩ to 10 kΩ	0.14 % of reading	
	10 kΩ to 100 kΩ	1.41 % of reading	
	100 kΩ to 1 MΩ	1.44 % of reading	
	1 MΩ to 10 MΩ	1.44 % of reading	
	10 MΩ to 100 MΩ	10.2 % of reading	
Equipment to Measure Frequency (at the listed voltage) FO			
100 mV	10 Hz	0.58 % of reading	
100 mV	40 Hz	2.3 % of reading	
100 mV	300 kHz	0.43 % of reading	
Equipment to Measure Frequency (at the listed voltage) FO			
750 V	50 Hz	3.1 % of reading	
750 V	10 kHz	16 % of reading	
Oscilloscope – Flatness Relative to 50 kHz signal FO	250 kHz to 100 MHz	1 % of reading	Tektronix SG 503 GIDEP
	100 MHz to 250 MHz	3 % of reading	
Oscilloscope – Time Marks Horizontal Calibration FO	5 s to 1 ns	(1×10^{-7}) s	Tektronix TG 501 GIDEP
Oscilloscope – Band Width Vertical Calibration FO	0.2 V to 2.00 V	0.003 % of reading + 7 µV	Transmille 3041A GIDEP
	2.1 V to 20.0 V	0.002 5 % of reading + 480 µV	
	21 V to 200 V	0.003 % of reading + 4 300 µV	
	201 V to 1 000 V	0.003 % of reading + 4 800 µV	
Temperature Calibration Indication and Control Equipment used with Thermocouple Type J FO	-210 ºC to 0 ºC	0.14 º C	Transmille EA001A GIDEP
	Up to 400 ºC	0.11 º C	
	400 ºC to 1 200 ºC	0.32 º C	
Temperature Calibration Indication and Control Equipment used with Thermocouple Type K FO	-200 ºC to -100 ºC	0.15 º C	
	-100 ºC to 0 ºC	0.067 º C	
	Up to 120 ºC	0.12 º C	
	120 ºC to 500 ºC	0.16 º C	
	500 ºC to 1 000 ºC	0.2 º C	
	1 000 ºC to 1 372 ºC	0.27 º C	

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Time and Frequency

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Digital/Mechanical Tachometer [FO]	40 rpm to 99 999 rpm	(1.60 + 0.003 % of reading) rpm	Tachometer CP-041
Stopwatches / Timers [FO]	Up to 24 hr	0.05s /day	Universal Counter CP-048

Thermodynamics

MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE OR NOMINAL DEVICE SIZE AS APPROPRIATE	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (±)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED
Thermometers [FO]	-80 °C to 400 °C	0.073 °C	AccuMac AM8040 with AM1640-12 SPRT CP-037-1
Digital Temperature [FO] Devices	-200 °C to 1 372 °C	0.3 °C	Fluke 714B CP-037-2
Non-Contact Infrared Temperature Thermometers, Pyrometers [FO]	-6.6 °C to 400 °C	2.2 °C	BB703 GIDEP
Psychrometer [FO]	15 % to 95 % RH Non-condensing	4.9 % RH	Psychro-Dyne Model:22010 CP-037-3
Humidity Meters [FO]	5 % RH and 95 % RH	2 % RH	Vaisala Salt Chamber CP-037-3
	20 °C	0.52 °C	SPRT with Salts Chamber CP-037-3

1. The CMC (Calibration and Measurement Capability) stated for calibrations included on this scope of accreditation represents the smallest measurement uncertainty attainable by the laboratory when performing a more or less routine calibration of a nearly ideal device under nearly ideal conditions. It is typically expressed at a confidence level of 95 % using a coverage factor *k* (usually equal to 2). The actual measurement uncertainty associated with a specific calibration performed by the laboratory will typically be larger than the CMC for the same calibration since capability and performance of the device being calibrated and the conditions related to the calibration may reasonably be expected to deviate from ideal to some degree.

2. The laboratories range of calibration capability for all disciplines for which they are accredited is the interval from the smallest calibrated standard to the largest calibrated standard used in performing the calibration. The low end of this range must be an attainable value for which the laboratory has or has access to the standard referenced. Verification of an indicated value of zero in the absence of a standard is common practice in the procedure for many calibrations but by its definition it does not constitute calibration of zero capacity.

3. The presence of a superscript F means that the laboratory performs calibration of the indicated parameter at its Fixed location. Example: Outside Micrometer [F] would mean that the laboratory performs this calibration at its Fixed location.

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4. The presence of a superscript FO means that the laboratory performs calibration of the indicated parameter both at its Fixed location and Onsite at customer locations. Example: Outside Micrometer^{FO} would mean that the laboratory performs this calibration at its Fixed location and Onsite at customer locations.

5. Measurement uncertainties obtained for calibrations performed at customer sites can be expected to be larger than the measurement uncertainties obtained at the laboratories Fixed location for similar calibrations. This is due to the effects of transportation of the standards and equipment and upon environmental conditions at the customer site which are typically not controlled as closely as at the laboratories fixed location.

6. The term R represents radius in inches or millimeters as appropriate to the uncertainty statement.

7. The term L represents length in inches or millimeters as appropriate to the uncertainty statement.