

PERRY JOHNSON LABORATORY ACCREDITATION, INC.

Certificate of Accreditation

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

Petroservicios Industriales, S.A. de C.V.

Olmo #206, Col. AltaVista Tampico, Tamaulipas, México. CP. 89240

(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):

Chemical 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:

Initial Accreditation Date:

Issue Date:

Expiration Date:

October 09, 2020

September 21, 2022

October 31, 2024

Acreditation No.:

Certificate No.:

103248

L22-621

Tracy Szerszen President

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



Petroservicios Industriales, S.A. de C.V.

Olmo #206, Col. AltaVista Tampico, Tamaulipas, México. CP. 89240

Contact Name: Paulina Castro Gama Phone: 833-217-0966

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

Chemical			
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
Iron (Fe) - Portable	0.047 % of Fe	0.004 5 %	Reference Material
X-Ray Fluorescence			CDA 642
Spectrometer ^F			Internal Procedure
1			PROC-006
	0.2 % of Fe	0.009 6 %	Reference Material
			SS-5083 BS
			Internal Procedure
			PROC-006
	0.31 % of Fe	0.011 %	Reference Material
			SS-4032 B
			Internal Procedure
			PROC-006
	0.53 % of Fe	0.017 %	Reference Material
			TI-6-6-2
			Internal Procedure
			PROC-006
	0.77 % of Fe	0.01 %	Reference Material
			Alloy K-500
			Internal Procedure
			PROC-006
	1.1 % of Fe	0.029 %	Reference Material
			Alloy 6B
			Internal Procedure
			PROC-006
_	17.84 % of Fe	0.074 %	Reference Material
			Hastaloy X
			Internal Procedure
			PROC-006
	40.6 % of Fe	0.15 %	Reference Material
			CDA 642
			Internal Procedure
			PROC-006
Tin (Sn) - Portable	0.15 % of Sn	0.003 9 %	Reference Material
X-Ray Fluorescence			CDA 360
Spectrometer ^F			Internal Procedure
			PROC-006
	1.97 % of Sn	0.012 %	Reference Material
			Ti-6-2-4-2
			Internal Procedure
			PROC-006



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MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE OR NOMINAL DEVICE SIZE AS	CALIBRATION AND MEASUREMENT	CALIBRATION EQUIPMENT
QUANTITI OR GAUGE	APPROPRIATE	CAPABILITY EXPRESSED AS AN UNCERTAINTY (±)	AND REFERENCE STANDARDS USED
Tin (Sn) – Portable	2 % of Sn	0.033 %	Reference Material
X-Ray Fluorescence			Ti-6-6-2
Spectrometer ^F			Internal Procedure
			PROC-006
	3.4 % of Sn	0.038 %	Reference Material 32XPB11
			Internal Procedure
			PROC-006
	4.58 % of Sn	0.02 %	Reference Material
			CDA 836
			Internal Procedure
			PROC-006
	9.75 % of Sn	0.042 %	Reference Material
			CDA 937
		7	Internal Procedure
	62.38 % of Sn	0.11 %	PROC-006 Reference Material
	62.38 % 01 SII	0.11 %	91X S63PR2
			Internal Procedure
		A A C	PROC-006
Copper (Cu) – Portable	0.032 % of Cu	0.002 9 %	Reference Material
X-Ray Fluorescence			AISI 416
Spectrometer ^F			Internal Procedure
			PROC-006
	0.049 % of Cu	0.003 %	Reference Material
			SS-5083 BS
	0.262.0/ .6.6	0.000.7.0/	Internal Procedure PROC-006
	0.362 % of Cu	0.008 7 %	Reference Material Nitronic 60
			Internal Procedure
			PROC-006
	0.38 % of Cu	0.008 3 %	Reference Material
	0.50 70 01 04	0.000 3 70	AISI 321
			Internal Procedure
			PROC-006
	0.4 % of Cu	0.013 %	Reference Material
			17-7PH
			Internal Procedure
			PROC-006
	0.49 % of Cu	0.025 %	Reference Material
			Ti-6-6-2
			Internal Procedure PROC-006



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Copper (Cu) - Portable	0.89 % of Cu	0.03 %	Reference Material
X-Ray Fluorescence			SS-4032 B
Spectrometer ^F			Internal Procedure
1			PROC-006
	2.23 % of Cu	0.033 %	Reference Material
			Custom 455
			Internal Procedure
			PROC-006
	3.25 % of Cu	0.024 %	Reference Material
			20CB3
			Internal Procedure
			PROC-006
	4.56 % of Cu	0.05 %	Reference Material
			74X HB
			Internal Procedure
			PROC-006
	11.18 % of Cu	0.1 %	Reference Material
			73X SC11
			Internal Procedure
			PROC-006
	30.22 % of Cu	0.043 %	Reference Material
			Alloy K-500
			Internal Procedure
			PROC-006
	61.5 % of Cu	0.091 %	Reference Material
			CDA 360
			Internal Procedure
		2	PROC-006
	90.54 % of Cu	0.053 %	Reference Material
			32X PB11
			Internal Procedure
			PROC-006
	91.2 % of Cu	0.087 %	Reference Material
			CDA 642
			Internal Procedure PROC-006
Nickel (Ni) - Portable	0.12 % of Ni	0.005 4 %	Reference Material
X-Ray Fluorescence			AISI 416
Spectrometer ^F			Internal Procedure
			PROC-006



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Nickel (Ni) - Portable X-Ray Fluorescence Spectrometer ^F	0.36 % of Ni	0.006 5 %	Reference Material CDA 937 Internal Procedure PROC-006
	0.78 % of Ni	0.009 2 %	Reference Material CDA 836 Internal Procedure PROC-006
	0.89 % of Ni	0.03 %	Reference Material SS-4032 B Internal Procedure PROC-006
	2.25 % of Ni	0.032 %	Reference Material Alloy 6B Internal Procedure PROC-006
	7.21 % of Ni	0.16 %	Reference Material 17-7PH Internal Procedure PROC-006
	8.28 % of Ni	0.038 %	Reference Material Custom 455 Internal Procedure PROC-006
	8.5 % of Ni	0.044 %	Reference Material Nitronic 60 Internal Procedure PROC-006
	9.64 % of Ni	0.053 %	Reference Material AISI 321 Internal Procedure PROC-006
	33.31 % of Ni	0.078 %	Reference Material 20CB3 Internal Procedure PROC-006
	38.44 % of Ni	0.12 %	Reference Material Inco 909 Internal Procedure PROC-006



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Nickel (Ni) - Portable X-Ray Fluorescence Spectrometer ^F	47.37 % of Ni	0.068 %	Reference Material Hastaloy X Internal Procedure PROC-006
	64.3 % of Ni	0.093 %	Reference Material Alloy K-500 Internal Procedure PROC-006
Titanium (Ti) - Portable X-Ray Fluorescence Spectrometer ^F	0.23 % of Ti	0.011 %	Reference Material AISI 321 Internal Procedure PROC-006
	1.11 % of Ti	0.021 %	Reference Material Custom 455 Internal Procedure PROC-006
	1.58 % of Ti	0.018 %	Reference Material Inco 909 Internal Procedure PROC-006
Niobium (Nb) - Portable X-Ray Fluorescence Spectrometer ^F	0.021 % of Nb	0.003 7 %	Reference Material AISI 321 Internal Procedure PROC-006
	0.25 % of Nb	0.003 9 %	Reference Material Custom 455 Internal Procedure PROC-006
	0.52 % of Nb	0.009 2 %	Reference Material 20CB3 Internal Procedure PROC-006
	5 % of Nb	0.045 %	Reference Material Inco 909 Internal Procedure PROC-006
Molybdenum (Mo) - Portable X-Ray Fluorescence Spectrometer ^F	0.011 % of Mo	0.001 1 %	Reference Material AISI 416 Internal Procedure PROC-006



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Chemical		1	
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Molybdenum (Mo) -	0.31 % of Mo	0.009 1 %	Reference Material
Portable X-Ray			Nitronic 60
Fluorescence			Internal Procedure
Spectrometer ^F			PROC-006
•	0.32 % of Mo	0.003 9 %	Reference Material
			AISI 321
			Internal Procedure
			PROC-006
	0.44 % of Mo	0.004 4 %	Reference Material
			17-7PH
			Internal Procedure
			PROC-006
	0.46 % of Mo	0.009 7 %	Reference Material
	01.10 / 0 011.110		1.25Cr5Mo
			Internal Procedure
			PROC-006
	0.83 % of Mo	0.009 3 %	Reference Material
			Alloy 6B
			Internal Procedure
			PROC-006
	2 % of Mo	0.026 %	Reference Material
			Ti-6-2-4-2
			Internal Procedure
			PROC-006
	2.06 % of Mo	0.021 %	Reference Material
	2.00 / 0 011.12	0.021 / 0	20CB3
			Internal Procedure
			PROC-006
	4.79 % of Mo	0.025 %	Reference Material
	, 5 , 6 61 1.12	0.020 / 0	Tool Steel M-2
			Internal Procedure
			PROC-006
	8.78 % of Mo	0.058 %	Reference Material
			Hastaloy X
			Internal Procedure PROC-006
Manganese (Mn) -	0.36 % of Mn	0.015 %	Reference Material
Portable X-Ray			20CB3
Fluorescence			Internal Procedure PROC-006
Spectrometer ^F			11000000
Specification	1		1



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Manganese (Mn) - Portable X-Ray Fluorescence Spectrometer ^F	0.45 % of Mn	0.008 6 %	Reference Material 1.25Cr5Mo Internal Procedure PROC-006
	0.68 % of Mn	0.021 %	Reference Material Hastaloy X Internal Procedure PROC-006
	0.71 % of Mn	0.018 %	Reference Material AISI 416 Internal Procedure PROC-006
	0.76 % of Mn	0.021 %	Reference Material SS-5083 BS Internal Procedure PROC-006
	0.83 % of Mn	0.015 %	Reference Material 17-7PH Internal Procedure PROC-006
	0.99 % of Mn	0.023 %	Reference Material Alloy 6B Internal Procedure PROC-006
	1.35 % of Mn	0.019 %	Reference Material AISI 321 Internal Procedure PROC-006
	8.58 % of Mn	0.05 %	Reference Material Nitronic 60 Internal Procedure PROC-006
Chromium (Cr) - X-Ray Fluorescence Spectrometer ^F	0.101 % of Cr	0.006 5 %	Reference Material SS-5083 BS Internal Procedure PROC-006
	1.12 % of Cr	0.01 %	Reference Material 1.25Cr5Mo Internal Procedure PROC-006



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MEASURED	RANGE OR NOMINAL DEVICE	CALIBRATION AND	CALIBRATION
INSTRUMENT,	SIZE AS APPROPRIATE	MEASUREMENT	EQUIPMENT
QUANTITY OR GAUGE		CAPABILITY EXPRESSED	AND REFERENCE
Chromium (Cr) -	3.86 % of Cr	AS AN UNCERTAINTY (±) 0.062 %	Reference Material
Portable X-Ray	3.80 70 OI CI	0.002 70	Tool Steel M-2
Fluorescence			Internal Procedure
Spectrometer ^F			PROC-006
Spectrometer	4.14 % of Cr	0.038 %	Reference Material
	1.11 / 0 01 01	0.030 70	Tool Steel T-1
			Internal Procedure
			PROC-006
	13.05 % of Cr	0.049 %	Reference Material
			AISI 416
			Internal Procedure
			PROC-006
	16.37 % of Cr	0.03 %	Reference Material
			17-7PH
			Internal Procedure
			PROC-006
	18.14 % of Cr	0.059 %	Reference Material
			AISI 321
			Internal Procedure
			PROC-006
	19.42 % of Cr	0.07 %	Reference Material
			20CB3
			Internal Procedure
			PROC-006
	21.9 % of Cr	0.056 %	Reference Material
			Hastaloy X
			Internal Procedure
	20.00/ 66	0.004.0/	PROC-006
	28.8 % of Cr	0.094 %	Reference Material
			Alloy 6B Internal Procedure
			PROC-006
Tungsten (W)-	0.78 % of W	0.014 %	Reference Material
Portable X-Ray	0.78 70 01 W	0.014 70	Hastaloy X
Fluorescence			Internal Procedure
Spectrometer ^F			PROC-006
Specifolicies	3.42 % of W	0.024 %	Reference Material
	3.72 /0 OI W	0.027 /0	Alloy 6B
			Internal Procedure
			PROC-006
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Chemical	I navenen vermaa		G. T. T. D. T. G.
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
Tungsten (W)- Portable X-Ray Fluorescence Spectrometer ^F	5.98 % of W	0.07 %	Reference Material Tool Steel M-2 Internal Procedure PROC-006
	17.26 % of W	0.28 %	Reference Material Tool Steel T-1 Internal Procedure PROC-006
Cobalt (Co) - Portable X-Ray Fluorescence Spectrometer ^F	0.41 % of Co	0.025 %	Reference Material Tool Steel M-2 Internal Procedure PROC-006
	1.58 % of Co	0.02 %	Reference Material Hastaloy X Internal Procedure PROC-006
	12.88 % of Co	0.084 %	Reference Material Inco 909 Internal Procedure PROC-006
	60.9 % of Co	0.26 %	Reference Material Alloy 6B Internal Procedure PROC-006
Lead (Pb) - Portable X-Ray Fluorescence Spectrometer ^F	0.04 % of Pb	0.002 5 %	Reference Material 74X CA8 Internal Procedure PROC-006
	1.038 % of Pb	0.014 %	Reference Material 32X PB11 Internal Procedure PROC-006
	2.71 % of Pb	0.04 %	Reference Material CDA 360 Internal Procedure PROC-006
	5.49 % of Pb	0.073 %	Reference Material CDA 836 Internal Procedure PROC-006



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QUANTITY OR GAUGE	SIZE AS APPROPRIATE	MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (±)	EQUIPMENT AND REFERENCE STANDARDS USED
Lead (Pb) - Portable X-Ray Fluorescence Spectrometer ^F	9.5 % of Pb	0.1 %	Reference Material CDA 937 Internal Procedure PROC-006
Zinc (Zn) - Portable X-Ray Fluorescence Spectrometer ^F	0.049 % of Zn	0.002 2 %	Reference Material SS-5083 BS Internal Procedure PROC-006
	0.098 % of Zn	0.005 1 %	Reference Material SS-4032 B Internal Procedure PROC-006
	1.5 % of Zn	0.028 %	Reference Material 32X PB11 Internal Procedure PROC-006
	4.18 % of Zn	0.043 %	Reference Material CDA 836 Internal Procedure PROC-006
	35.3 % of Zn	0.1 %	Reference Material CDA 360 Internal Procedure PROC-006
Vanadium (V) - Portable X-Ray Fluorescence Spectrometer ^F	1.12 % of V	0.012 %	Reference Material Tool Steel T-1 Internal Procedure PROC-006
•	1.83 % of V	0.03 %	Reference Material Tool Steel M-2 Internal Procedure PROC-006
	5.43 % of V	0.052 %	Reference Material Ti-6-6-2 Internal Procedure PROC-006
Aluminum (Al) - Portable X-Ray Fluorescence Spectrometer ^F	1.18 % of Al	0.063 %	Reference Material 17-7PH Internal Procedure PROC-006



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Aluminum (Al) - Portable X-Ray Fluorescence Spectrometer ^F	3.02 % of Al	0.067 %	Reference Material Alloy K-500 Internal Procedure PROC-006
	5.45 % of Al	0.1 %	Reference Material Ti-6-6-2 Internal Procedure PROC-006
	5.87 % of Al	0.12 %	Reference Material Ti-6-2-4-2 Internal Procedure PROC-006
	6.7 % of Al	0.078 %	Reference Material CDA 642 Internal Procedure PROC-006
Silicon (Si) - Portable X-Ray Fluorescence Spectrometer ^F	0.089 % of Si	0.013 %	Reference Material Ti-6-2-4-2 Internal Procedure PROC-006
	0.157 % of Si	0.009 %	Reference Material SS-5083 BS Internal Procedure PROC-006
	0.41 % of Si	0.015 %	Reference Material Inco 909 Internal Procedure PROC-006
	0.47 % of Si	0.016 %	Reference Material AISI 416 Internal Procedure PROC-006
	0.58 % of Si	0.014 %	Reference Material 1.25Cr5Mo Internal Procedure PROC-006
	1.84 % of Si	0.031 %	Reference Material CDA 642 Internal Procedure PROC-006



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Silicon (Si) - Portable X-Ray Fluorescence Spectrometer ^F	3.67 % of Si	0.037 %	Reference Material Nitronic 60 Internal Procedure PROC-006
	12 % of Si	0.2 %	Reference Material SS-4032 B Internal Procedure PROC-006

- 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.
- 4. 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.