# PERRY JOHNSON LABORATORY ACCREDITATION, INC.

# *Certificate of Accreditation*

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

## *J & M Plating, Inc.*

***4500 Kishwaukee Street, Rockford, IL 61109***

*(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):

## *Mechanical Testing*

***(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:* |
|---|---|---|
| May 04, 2016 | September 05, 2023 | October 31, 2025 |

| *Accreditation No.:* | *Certificate No.:* |
|---|---|
| 89899 | L23-662 |

*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*

**J & M Plating, Inc.**
4500 Kishwaukee Street, Rockford, IL 61109
Contact Name: Mr. Nic Krause Phone: 815-964-4975

*Accreditation is granted to the facility to perform the following testing:*

| FIELD OF TEST | ITEMS, MATERIALS OR PRODUCTS TESTED | SPECIFIC TESTS OR PROPERTIES MEASURED | SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED | RANGE (WHERE APPROPRIATE) AND DETECTION LIMIT |
|---|---|---|---|---|
| Mechanical [F] | Fasteners, Screws, Stampings, and Bolts | Rockwell Hardness | ASTM E-18 | 24.9 HRC to 56.1 HRC<br>63.3 HRA to 83 HRA<br>51.4 HR30N to 81.6 HR30N<br>71.9 HR15N to 91.5 HR15N |
| | | Micro Hardness | ASTM E-384 | Knoop- 200 g to 500 g<br>Vickers- 200 g to 1 000 g |
| | | Decarburization<br>Carburization | SAE J419<br>SAE J121<br>SAE J423<br>ASTM F2328 | 200 HK to 500 HK for HV |
| | | Case Depth | SAE J423 | 0.002 in minimum |
| | | Corrosion Cycle Test | WSS-M21P17-B1 & B3 | Qualitative visual |
| | | Corrosion Resistance<br>Salt Spray | ASTM B-117<br>ISO-9227 | |
| | | Adhesion Test | DX551200, GMW3044,<br>ISO 10683 para 7.5 | |
| | | | ISO 10683 para 7.5 | |
| | | Burnish Test | ASTM B571 | Qualitative visual-<br>no flaking |
| | | Plating thickness,<br>X-Ray | ASTM B568 | 0.000 1 min |
| | | Coating thickness<br>Magnetic Inductance | ISO 2178 | 1 µm |
| | Torque/Clamp Force Testing | Torque/Tension Testing | ISO 16047<br>GMW3359<br>GMW3044<br>Ford WX100<br>JDM F15X1<br>JDM F13<br>SAE USCAR 11<br>Ford WZ101 | Coefficient of Friction<br>Range: 0.01 to 1 |

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