



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

SOUTH HOLLAND METAL FINISHING LABORATORY  
26100 S. Whiting Way  
Monee, IL 60449  
Todd Burnley Phone: 708 235 4018

MECHANICAL

Valid To: September 30, 2023

Certificate Number: 0975.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following fastener and metal tests on the following materials: zinc, cadmium, or zinc alloy plated deposits, zinc phosphate coatings, dye or paint top coats, heat treated fasteners or stampings, plating process baths or waste water.

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<u>Test Technology</u>	<u>Test Methods</u>
Adhesion of Plated Deposit	ASTM B571, Methods 4, 9, and 13
Case Depth – Micro	SAE J423
Decarburization	SAE J121 (Cancelled 2013) <sup>1</sup> , J121M (Cancelled 2013) <sup>1</sup>
Microhardness (Knoop – 500gf)	ASTM E384
pH Measurement	ASTM E70
Phosphate Coating Weight Analysis	MIL-DTL-16232G, Type Z, 4.7.3.2
Plating Thickness	ASTM B568
Rockwell Hardness (A, B, C, 15N, 30N)	ASTM E18
Salt Spray	ASTM B117; ISO 9227
Sampling	ASME/ANSI B18.18.2M <sup>1</sup> (Superseded 2011), B18.18.3M <sup>1</sup> (Superseded 2011), B18.18.4M <sup>1</sup> (Superseded 2011), B18.18.5M <sup>1</sup> (Superseded 2011)
Torque Tension	GMW 3044; ISO 16047; SAE/USCAR 10, 11

**Wet Chemistry**

<b><u>Test Technology</u></b>	<b><u>Test Methods</u></b>
Volumetric Chemical Analysis of Electroplating Bath: Cleaner Hydrochloric Acid Zinc Chloride Total Phosphate Free Phosphate Iron Oil Analysis	SHMF 4.1 <sup>2</sup> SHMF 4.2.0 <sup>2</sup> SHMF 4.3.1 <sup>2</sup> SHMF 4.3.2 <sup>2</sup> SHMF 4.5.1 <sup>2</sup> SHMF 4.5.2 <sup>2</sup> SHMF 4.5.3 <sup>2</sup> SHMF 4.5.5 <sup>2</sup>
Metals by Atomic Absorption: Zinc Cadmium Copper Chromium Cobalt Nickel Silver Lead Iron	Standard Methods 3111B
Metals in Solution by X-Ray: Chromium Zinc	SHMF 4.6.1 <sup>2</sup> SHMF 4.6.2 <sup>2</sup>

<sup>1</sup> This laboratory's scope contains superseded methods. As a clarifier, this indicates that the applicable method itself has been withdrawn or is now considered "historical" and not that the laboratory's accreditation for the method has been withdrawn.

<sup>2</sup> South Holland Metal Finishing internal procedure (SHMF)





## Accredited Laboratory

A2LA has accredited

# SOUTH HOLLAND METAL FINISHING LABORATORY

*Monee, IL*

for technical competence in the field of

## Mechanical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 *General requirements for the competence of testing and calibration laboratories*. 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 April 2017).



Presented this 1<sup>st</sup> day of October 2021.

A blue ink signature of the Vice President of Accreditation Services.

Vice President, Accreditation Services  
For the Accreditation Council  
Certificate Number 0975.01  
Valid to September 30, 2023

*For the tests to which this accreditation applies, please refer to the laboratory's Mechanical Scope of Accreditation.*