



PERRY JOHNSON LABORATORY ACCREDITATION, INC.

Certificate of Accreditation

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

Engineered Heat Treat, LLC
31271 Stephenson Highway, Madison Heights, MI 48071

*(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

Initial Accreditation Date:

July 03, 2024

Issue Date:

July 03, 2024

Expiration Date:

October 31, 2026

Accreditation No.:

126162

Certificate No.:

L24-499

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.pjlab.com*



Certificate of Accreditation: Supplement

Engineered Heat Treat, LLC

31271 Stephenson Highway, Madison Heights, MI 48071

Contact Name: Ms. Jane Bush Phone: 248-588-5141

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

FLEX CODE	FIELD OF TEST	ITEMS, MATERIALS, OR PRODUCTS TESTED	COMPONENT, CHARACTERISTIC, PARAMETER TESTED	SPECIFICATION OR STANDARD METHOD	TECHNOLOGY OR TECHNIQUE USED
F1, F2	Mechanical ^F	Metallic Materials	Rockwell Hardness	ASTM E18	HRC, HRB, HRA, HR15N, HR30N
F1, F2			Metallographic Preparation	ASTM E3	Metallurgical Mounts
F1, F2			Metallographic Etching	ASTM E407	All Listed Etchants
F1, F2			Microhardness	ASTM E384	HV0.05, HV0.1, HV0.2, HV0.5, HV1.0, HK0.05 HK0.1, HK0.2, HK0.5, HK1.0
F1, F2			Case Depth	SAE J423	Effective and Total by Microhardness and Microscopic Methods
F1, F2			Grain Size	ASTM E112	GSN 00-14
F1, F2			Decarburization	ASTM E1077, SAE J419	Microscopic technique with 50X-1000X Magnification, Microhardness Technique (HK0.5)
F1, F4			Intergranular Oxidation and Attack	EHTLB-IGO	Microscopic Technique with 500X-1000X Magnification
F1, F4			Retained Austenite (Visual)	EHTLB-RAVI	Microscopic Technique with 500X-1000X Magnification
F1, F2			Retained Austenite (X-ray)	ASTM E975, SAE SP-453	X-ray diffraction
F1, F2			Carbon Determination	ASTM E1019	Combustion Analysis

1. The presence of a superscript F means that the laboratory performs testing of the indicated parameter at its fixed location.
2. Flex Code:
 F1-Introduction of the testing of a new item, material, matrix, or product for an accredited test method
 F2-Introduction of a new version of an accredited standard method (with no modifications)
 F3-Introduction of a new parameter/component/analyte to an accredited test method
 F4-Introduction of a new version or modifications of an accredited non-standard method
 F5-Introduction of a new method that is equivalent to an accredited method (using same technology or technique)