



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

EXCEL TESTING AND ENGINEERING LLC.
DBA: EXCEL ENGINEERING
1587 160th Avenue
Diagonal, IA 50845
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MECHANICAL

Valid To: August 31, 2024

Certificate Number: 4050.01

In recognition of the successful completion of the A2LA evaluation process accreditation is granted to this laboratory at the location listed above as well as the satellite location¹ listed below to perform the following types of tests on Internal Combustion (IC) Engine Development, Engine Exhaust Emissions, and Electrification Development:

Test	Test Method²
Performance Engine Durability Development and Engine Emissions Development (25 to 4,500) HP 24/7 Automated Engine Operation Automated Computer Controlled Test Cells	Excel Engineering Procedure – Engine Durability Development
Exhaust After Treatment Testing Durability/Aging Process and Development Work	Excel Engineering Procedure – After Treatment Aging/Poisoning
Engine Off Level Testing Capable of 50° on both axes	Excel Engineering Procedure – Off Level Engine Testing
Cold Ambient Testing -25°C Capability	Excel Engineering Procedure – Cold Ambient Testing
Engine Cold Flush Testing (-265 to 65) °F Coolant Flush in less than 65 sec	Excel Engineering Procedure – Engine Cold Flush Testing
Engine and Vehicle Component Testing (In conjunction with Engine Durability Testing)	Excel Engineering Procedure – Component Testing
On Highway, Off-Road and Marine Exhaust Emissions	Excel Engineering Procedure – Engine Emissions Development
Engine Exhaust Emissions Testing Procedures 40 CFR Emissions Test Cells Motoring Dynamometer Capabilities Transient and Steady State Testing Capabilities	Excel Engineering Procedure – 40 CFR 1065 Engine Testing

EXCEL TESTING AND ENGINEERING LLC.
DBA: EXCEL ENGINEERING¹
904 S. Cleveland Street
Mount Ayr, IA 50854

Test	Test Method²
Battery Performance Testing	Excel Engineering Procedure - Battery Cycling Excel Engineering Procedure – Rollover Testing Excel Engineering Procedure – Penetration Testing Excel Engineering Procedure – Dust Testing Excel Engineering Procedure – Spray Testing Excel Engineering Procedure – Immersion Testing Excel Engineering Procedure – Drop Testing Excel Engineering Procedure – Salt Testing Excel Engineering Procedure – Crush Testing

¹This accreditation covers the specified testing performed at the laboratory locations listed in this scope of accreditation.

²This laboratory also uses customer supplied specifications and/or methods.





Accredited Laboratory

A2LA has accredited

EXCEL TESTING AND ENGINEERING LLC. DBA: EXCEL ENGINEERING

Diagonal, IA

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 19th day of August 2022.

A blue ink signature of Mr. Trace McInturff, written over a horizontal line.

Mr. Trace McInturff, Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 4050.01
Valid to August 31, 2024

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