



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

JBI CORPORATION  
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ELECTRICAL

Valid to: January 31, 2027

Certificate Number: 1711.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following tests on lead acid batteries:

<u>Test Technology:</u>	<u>Test Method(s) <sup>1</sup>:</u>
<b><u>Battery Council International Standards</u></b>	
<b><u>BCI Technical Manual</u></b>	
Pretest Conditioning & Charging	BCIS-04, 3.0
Reserve Capacity Test	BCIS-04, 5.2
Cranking Performance at 0°F or 32°F	BCIS-04, 5.3
Cold Activation Performance	BCIS-04, 7.0
Charge Current Acceptance	BCIS-04, 8.0
Rating and Testing Electric Vehicle & Cycling Batteries	BCIS-06
Constant Current Cycle Life Testing of Deep Cycle Batteries	BCIS-06
Standard Test Procedure for Storage Batteries	BCIS-15
<b><u>SAE</u></b>	
Battery Conditioning & Charging	SAE J537, 3.3
Reserve Capacity Test	SAE J537, 3.6
Rechargeability & Charge Rate Acceptance	SAE J537, 3.8
Cold Cranking Test	SAE J537, 3.9
Life Test for Automotive Storage Batteries	SAE J240
Life Test for Heavy Duty Storage Batteries	SAE J2185
Comprehensive Life Test for 12V Automotive Storage Batteries	SAE J2801
Self-Discharge Test	SAE J930, 6.0
Electrical Performance Tests	SAE J930, 7.3
Deep Discharge Recovery	SAE J930, 7.5
<b><u>European (EN) Standards 50342-1</u></b>	
Initial Charge Prior to Test	EN 50342-1, 5.2
Activation of Dry-Charge Batteries	EN 50342-1, 7.2
Capacity Check, Ce	EN 50342-1, 6.1
Reserve Capacity Check, Cr, e	EN 50342-1, Annex B

**Test Technology:****Test Method(s) <sup>1</sup>:****European (EN) Standards 50342-1 (Continued)**

Cranking Performance	EN 50342-1, 6.2
Charge Acceptance	EN 50342-1, 6.4
Charge Retention	EN 50342-1, 6.5
Endurance Test	EN 50342-1, 6.6
Cranking Performance for Dry-Charge Batteries after Activation	EN 50342-1, 7.3

**Japanese Industrial (JIS) Standards D5301**

Charge	JIS D5301, 9.4.2
Capacity	JIS D5301, 9.5.2
High-Rate Discharge (-15°C)	JIS D5301, 9.5.3
Charge Acceptance	JIS D5301, 9.5.4
Endurance Test	JIS D5301, 9.5.5
Preparation of Batteries Prior to Test	JIS D5301, 9.4.2
Capacity Check, C <sub>e</sub>	JIS D5301, 9.5.2
Reserve Capacity Check, C <sub>r</sub> , e	JIS D5301, 9.5.2
Cranking Performance	JIS D5301, 9.5.3
Charge Acceptance	JIS D5301, 9.5.4
Charge Retention	JIS D5301, Annex 1, 1.0
Endurance Test, class A	JIS D5301, 9.5.5
Endurance Test, class B	JIS D5301, 9.5.5
Cranking Performance for Dry-Charge Batteries after Activation	JIS D5301, Annex 1, 4.0

**Japanese Industrial (JIS) Standards D5302**

Charge	JIS D5302, 8.2.2
Capacity	JIS D5302, 8.3.2
High-Rate Discharge Characteristics	JIS D5302, 8.3.3
Life Test	JIS D5302, IR 1 & 2

**Japanese Industrial (JIS) Standards C8702**

Charge	JIS C8702, 6.1
Capacity	JIS C8702, 7.1
High-Rate Characteristics	JIS C8702, 7.2
Maximum Permissible Current	JIS C8702, 7.5
Charge Acceptance	JIS C8702, 7.6
Endurance in Trickle Applications	JIS C8702, 7.7
Storage Characteristics	JIS C8702, 7.4
Cycle Service Endurance	JIS C8702, 7.3

**GM Standard GMW 3092**

Cold Cranking Discharge	GMW 3092, 4.3.1
Low Capacity / Low Temperature CCA	GMW 3092, 4.3.2
Reserve Capacity	GMW 3092, 4.3.3
20 Hour Capacity	GMW 3092, 4.3.4
Self-Discharge	GMW 3092, 4.3.5
Charge Rate Acceptance	GMW 3092, 4.3.6
Field Rechargeability	GMW 3092, 4.3.7

**Test Technology:**

**Test Method(s) <sup>1</sup>:**

**GM Standard GMW 3092 (Cont.)**

Total Discharge Rechargeability	GMW 3092, 4.3.8
Cycle Life	GMW 3092, 4.3.18
Battery Life (Cert)	GMW 3092, 4.3.19
Hydrometer	GMW 3092, 4.3.25

**Toyota Engineering Standards**

20 Hour Capacity Test	TSC5102G, 5.1.2
Charge Rate Acceptance	TSC5102G, 5.2
Vibration Resistance	TSC5102G, 5.6
Vibration Resistance	TSC5102G, 5.6

**Ford Engineering Specification**

Conditioning	ES-F4SF-10655-AB, 3.7
600 Amp Discharge	ES-F4SF-10655-AB, 3.8
20 Hour Capacity	ES-F4SF-10655-AB, 3.9
Key Life Test (High Temperature Corrosion)	ES-F4SF-10655-AB, 3.19
Vibration	ES-F4SF-10655-AB, 3.14
30-day Stand (Discharge)	ES-F4SF-10655-AB, 3.18

**Chrysler Performance Standard**

Charging	PF-8568, 2.3.1
Specific Gravity	PF-8568, 2.3.2
Reserve Capacity	PF-8568, 2.3.3
Amp-Hour Capacity	PF-8568, 2.3.5
Stand Discharge	PF-8568, 2.3.10
Vibration	PF-8568, 2.3.11
Durability	PF-8568, 2.5.2

**Nissan Design Specification**

20 Hour Ratio Capacity	24410NDS00, 5.3.1
5 Hour Ratio Capacity	24410NDS00, 7.1
Life Cycles	24410NDS00, 5.5.1, 5.5.2, and 5.5.3
Overcharge Life Cycles	24410NDS00, 5.5.4
Charge Acceptability	24410NDS00, 5.3.5
Reserve Capacity	24410NDS00, 5.3.3
SAE Cold Cranking	24410NDS00, 5.3.4

**IEC 60095-1**

Capacity Ce, C20 Discharge	IEC 60095-1, 9.1
Capacity Cr, e Reserve Capacity	IEC 60095-1, 9.2
Cranking Performance Test	IEC 60095-1, 9.3
Charge Acceptance Test	IEC 60095-1, 9.4
Charge Retention Test	IEC 60095-1, 9.5
Corrosion Test	IEC 60095-1, 9.6.1
Cycling Test 1	IEC 60095-1, 9.6.2
Cycling Test 2	IEC 60095-1, 9.6.3
Cycling Test 3	IEC 60095-1, 9.6.4

**Test Technology:**

**Test Method(s) <sup>1</sup>:**

**IEC 60095-1 (Cont.)**

Cycling Test 4  
Water Consumption Test

IEC 60095-1, 9.6.5  
IEC 60095-1, 9.7

**Vibrations Tests**

Vibration Resistance Tests

BCIS-04, 9.0;  
SAE J3060;  
EN 50342-1, 5.8;  
JIS D5301, 9.5.6;  
IEC 60095-1, 9.8

**Also, customer supplied test methods within the following parameters:**

Water Baths: Room Temperature up to 167°F  
Environmental Simulation: (-40 to 80) °C  
Vibration: (3 to 10) G's, (20 to 40) Hz  
Discharge Testing: Up to 2000 amps  
Battery Cycling: (0 –300 amps)  
Charge and Discharge Cycling: (0 –1200 amps; 0 – 100 volts)

<sup>1</sup> When the date, edition, version, etc. is not identified in the scope of accreditation, laboratories may use the version that immediately precedes the current version for a period of one year from the date of publication of the standard measurement method, per part C., Section 1 of A2LA R101 - *General Requirements- Accreditation of ISO-IEC 17025 Laboratories*.



# Accredited Laboratory

A2LA has accredited

## JBI CORPORATION

Genoa, Ohio

for technical competence in the field of

### Electrical 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 21<sup>st</sup> day of October 2024.

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 1711.01  
Valid to January 31, 2027

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