



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

JBI CORPORATION
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ELECTRICAL

Valid to: January 31, 2025

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:

Battery Council International Standards BCI Technical Manual

Test Description:

Pretest Conditioning & Charging
Reserve Capacity Test
Cranking Performance at 0°F or 32°F
Cold Activation Performance
Charge Current Acceptance
Rating and Testing Electric Vehicle & Cycling Batteries
Constant Current Cycle Life Testing of Deep
Cycle Batteries
Standard Test Procedure for Storage Batteries

Test Method ¹:

BCIS-04, 3.0
BCIS-04, 5.2
BCIS-04, 5.3
BCIS-04, 7.0
BCIS-04, 8.0
BCIS-06
BCIS-06
BCIS-15

Society of Automotive Engineers Volume 2, Part I and Volume 3, Part II

Test Description:

Battery Conditioning & Charging
Reserve Capacity Test
Rechargeability & Charge Rate Acceptance
Cold Cranking Test
Life Test for Automotive Storage Batteries
Life Test for Heavy Duty Storage Batteries
Comprehensive Life Test for 12V Automotive
Storage Batteries
Self-Discharge Test
Electrical Performance Tests
Deep Discharge Recovery

Test Method ¹:

SAE J537, 3.3
SAE J537, 3.6
SAE J537, 3.8
SAE J537, 3.9
SAE J240
SAE J2185
SAE J2801

SAE J930, 6.0
SAE J930, 7.3
SAE J930, 7.5

European (EN) Standards 50342-1

Test Description:

Initial Charge Prior to Test
Activation of Dry-Charge Batteries
Capacity Check, Ce
Reserve Capacity Check, Cr,e
Cranking Performance
Charge Acceptance
Charge Retention
Endurance Test
Cranking Performance for Dry-Charge Batteries
after Activation

Test Method ¹:

EN 50342-1, 5.2
EN 50342-1, 7.2
EN 50342-1, 6.1
EN 50342-1, Annex B
EN 50342-1, 6.2
EN 50342-1, 6.4
EN 50342-1, 6.5
EN 50342-1, 6.6
EN 50342-1, 7.3

Japanese Industrial (JIS) Standards D5301

Test Description:

Charge
Capacity
High Rate Discharge (-15°C)
Charge Acceptance
Endurance Test
Preparation of Batteries Prior to Test
Capacity Check, Ce
Reserve Capacity Check, Cr,e
Cranking Performance
Charge Acceptance
Charge Retention
Endurance Test, class A
Endurance Test, class B
Cranking Performance for Dry-Charge Batteries
after Activation

Test Method ¹:

JIS D5301, 9.4.2
JIS D5301, 9.5.2
JIS D5301, 9.5.3
JIS D5301, 9.5.4
JIS D5301, 9.5.5
JIS D5301, 9.4.2
JIS D5301, 9.5.2
JIS D5301, 9.5.2
JIS D5301, 9.5.3
JIS D5301, 9.5.4
JIS D5301, Annex 1, 1.0
JIS D5301, 9.5.5
JIS D5301, 9.5.5
JIS D5301, Annex 1, 4.0

Japanese Industrial (JIS) Standards D5302

Test Description:

Charge
Capacity
High Rate Discharge Characteristics
Life Test

Test Method ¹:

JIS D5302, 8.2.2
JIS D5302, 8.3.2
JIS D5302, 8.3.3
JIS D5302, IR 1 & 2

Japanese Industrial (JIS) Standards C8702

Test Description:

Charge
Capacity
High Rate Characteristics
Maximum Permissible Current
Charge Acceptance
Endurance in Trickle Applications
Storage Characteristics
Cycle Service Endurance

Test Method ¹:

JIS C8702, 6.1
JIS C8702, 7.1
JIS C8702, 7.2
JIS C8702, 7.5
JIS C8702, 7.6
JIS C8702, 7.7
JIS C8702, 7.4
JIS C8702, 7.3

GM Standard GMW 3092

Test Description:

Cold Cranking Discharge
Low Capacity / Low Temperature CCA
Reserve Capacity
20 Hour Capacity
Self-Discharge
Charge Rate Acceptance
Field Rechargeability
Total Discharge Rechargeability
Cycle Life
Battery Life (Cert)
Hydrometer

Test Method ¹:

GMW 3092, 4.3.1
GMW 3092, 4.3.2
GMW 3092, 4.3.3
GMW 3092, 4.3.4
GMW 3092, 4.3.5
GMW 3092, 4.3.6
GMW 3092, 4.3.7
GMW 3092, 4.3.8
GMW 3092, 4.3.18
GMW 3092, 4.3.19
GMW 3092, 4.3.25

Toyota Engineering Standards

Test Description:

20 Hour Capacity Test
Charge Rate Acceptance
Vibration Resistance

Test Method ¹:

TSC5102G, 5.1.2
TSC5102G, 5.2
TSC5102G, 5.6

Ford Engineering Specification

Test Description:

Conditioning
600 Amp Discharge
20 Hour Capacity
Key Life Test (High Temperature Corrosion)
Vibration
30-day Stand (Discharge)

Test Method ¹:

ES-F4SF-10655-AB, 3.7
ES-F4SF-10655-AB, 3.8
ES-F4SF-10655-AB, 3.9
ES-F4SF-10655-AB, 3.19
ES-F4SF-10655-AB, 3.14
ES-F4SF-10655-AB, 3.18

Chrysler Performance Standard

Test Description:

Charging
Specific Gravity
Reserve Capacity
Amp-Hour Capacity
Stand Discharge
Vibration
Durability

Test Method ¹:

PF-8568, 2.3.1
PF-8568, 2.3.2
PF-8568, 2.3.3
PF-8568, 2.3.5
PF-8568, 2.3.10
PF-8568, 2.3.11
PF-8568, 2.5.2

Nissan Design Specification

Test Description:

20 Hour Ratio Capacity
5 Hour Ratio Capacity
Life Cycles
Overcharge Life Cycles
Charge Acceptability
Reserve Capacity
SAE Cold Cranking

Test Method ¹:

24410NDS00, 5.3.1
24410NDS00, 7.1
24410NDS00, 5.5.1, 5.5.2, and 5.5.3
24410NDS00, 5.5.4
24410NDS00, 5.3.5
24410NDS00, 5.3.3
24410NDS00, 5.3.4

IEC 60095-1

Test Description:

Capacity Ce, C20 Discharge
Capacity Cr,e Reserve Capacity
Cranking Performance Test
Charge Acceptance Test
Charge Retention Test
Corrosion Test
Cycling Test 1
Cycling Test 2
Cycling Test 3
Cycling Test 4
Water Consumption Test

Test Method ¹:

IEC 60095-1, 9.1
IEC 60095-1, 9.2
IEC 60095-1, 9.3
IEC 60095-1, 9.4
IEC 60095-1, 9.5
IEC 60095-1, 9.6.1
IEC 60095-1, 9.6.2
IEC 60095-1, 9.6.3
IEC 60095-1, 9.6.4
IEC 60095-1, 9.6.5
IEC 60095-1, 9.7

Vibrations Tests

Test Description

Vibration Resistance Tests

Test Methods¹:

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:

(25 to 300) amps

Charge and Discharge Cycling:

(up to 500 amps; up to 75 volts)

¹ 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, OH

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 6th day of March 2023.

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, 2025

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