Accredited Laboratory

A2LA has accredited

JOHN DEERE ELECTRONIC SOLUTIONS

Fargo, ND

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 20th day of June 2018.

President and CEO
For the Accreditation Council
Certificate Number 3010.01
Valid to June 30, 2020

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

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

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ELECTRICAL (EMC)

Valid to: June 30, 2020 Certificate Number: 3010.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following electromagnetic compatibility (EMC) tests:

Test Technology:	**Test Method(s):**
Emissions (Radiated)	CISPR 25 (2002, 2008), Section 6.4; CISPR 25 (2016), Section 6.5; ISO 13766 (1999, 2006, 2018), Sections 5.6 and 5.7; ISO 14982 (1998), Sections 6.4 and 6.5; JDQ 53.3(2005, 2011), Section 8.4; JDQ 203 (2013, 2018), Section 8; United Nations E/ECE/324 E/ECE/TRANS/505 Addendum 9/Rev.3 Regulation No. 10 Section 6.5 and 6.6
Emissions (Conducted)	CISPR 25 (2002, 2008), Sections 6.2 and 6.3; CISPR 25 (2016), Sections 6.3 and 6.4; JDQ 53.3 (2005, 2011), Section 8.4; JDQ 203 (2013, 2018), Section 7
Susceptibility (Radiated)	ISO 11452-2 (1995, 2014); ISO 11452-5 (1995, 2002); ISO 13766 (1999, 2006), Section 5.8; ISO 14982 (1998), Section 6.6; JDQ 53.3 (2005, 2011), Section 8.2; JDQ 203 (2013, 2018), Section 5; United Nations E/ECE/324 E/ECE/TRANS/505 Addendum 9/Rev 3 Regulation No. 10 Section 6.7

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Test Technology:	**Test Method(s):**
Susceptibility (Conducted)	ISO 11452-4 (2005, 2011); ISO 13766 (1999, 2006), Section 5.8; ISO 14982 (1998), Section 6.6; JDQ 53.3 (2005, 2011), Section 8.2; JDQ 203 (2013, 2018), Section 5; SAE J1113-4 (2014); United Nations E/ECE/324 E/ECE/TRANS/505 Addendum 9/Rev.3 Regulation No. 10 Section 6.7
Conducted Susceptibility	ISO 7637-2 (Electrical Transient from Conduction); ISO 7637-3 (Electrical Transient from Coupling), Section 3.5.1 (CCC method) and Section 3.5.3 (DCC method); ISO 7637-1, 2 (Electrical Transient from Conduction); ISO 17650-2, Sections 4.4, 4.6.1, 4.6.2, 4.6.3, 4.6.4; JDQ 53.3 (2005), Sections 8.5, 9.2.1, 9.2.2, 9.2.3, 9.2.4, 9.2.5 Level 3, 9.2.6, 9.2.7, 9.2.8, 9.2.9 and 9.2.10; SAE J1455, Section 4.13.2; JDQ 53.3 (2011), Sections 8.5, 9.2.1, 9.2.2, 9.2.3, 9.2.4, 9.2.5 Level 3, 9.2.6, 9.2.7, 9.2.8, 9.2.9 and 9.2.10; JDQ 202H, JDQ 202J, JDQ 202K, JDQ 202L, JDQ 202M, JDQ 202N, JDQ 202P, JDQ 202Q, JDQ 202R, JDQ 202S, JDQ 202T, JDQ 202U, JDQ 202V, JDQ 202Y, JDQ 202Z (2013, 2015, 2017), JDQ 202AA (2015, 2017)
Electrostatic Discharge	JDQ 53.3 (2005), Section 9.1.5; SAE J1455, Section 4.13.2.2.3; JDQ 53.3 (2011), Section 9.1.5; JDQ 202E, JDQ 202F (2013, 2015, 2017); ISO 10605, Sections 8 and 9
Steady State Electricals	JDQ 53.3 (2005), Sections 9.1.1, 9.1.2, 9.13 and 9.1.4; SAE J1455, Sections 4.13.1.1 and 4.13.1.2; JDQ 53.3 (2011), Sections 9.1.1, 9.1.2, 9.13 and 9.1.4; ISO 17650-2, Section 4.9; JDQ 202A, JDQ 202B, JDQ 202C, JDQ 202D, JDQ 202W (2013, 2015, 2017)

On the following products or types of products: Electronic Controllers (Engines, Transmissions, Vehicle Electronics), Electronic Displays (LCD Display Modules), Electronic Communication Gateways for Vehicles

[1] When the date, revision or edition of a test method standard is not identified on the scope of accreditation, the laboratory is expected to be using the current version within one year of the date of publication, per part C., Section 1 of A2LA *R101 - General Requirements- Accreditation of ISO-IEC 17025 Laboratories.*