



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

TRIALON CORPORATION – MTEC  
ENVIRONMENTAL LABORATORY  
1477 Walli Strasse Blvd.  
Burton, MI 48509

Gregory Ladd; Email: [gladd@trialon.com](mailto:gladd@trialon.com); Phone: 810 341 7933  
Glenn Janning, Email: [gjanning@trialon.com](mailto:gjanning@trialon.com); Phone: 810 341 7961  
Website: <http://www.trialon.com>

MECHANICAL

Valid To: May 31, 2012

Certificate Number: 1123.03

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

**Tests**

**Test Methods**

Force	
Connector Tests	GMW 3172
Terminal Retention Force	GMW 3172
Connector Mating Force	GMW 3172
Connector Retention Force	GMW 3172
Connector Disengagement Force	GMW 3172
Crush Test	GMW 3172
 <i><u>Environmental Simulation</u></i>	
Accelerated Weathering Exposure (Xenon)	SAE J1885; SAE J2412
Temp Exposure (-40 to 105) °C (with and without humidity)	
Humidity (20 to 95) %RH	GMW 3172
Thermal Shock (-40 to 105) °C	GMW 3172
Salt Fog/Mist	GM 4298; GMW 3172; ASTM B117
Dust Exposure	GMW 3172
Fluid Compatibility	GMW 3172 Dec 2001
Tri-Temperature/Parametric	GMW 3172
Low Temperature Testing	GMW 3172
High & Low Temperature Durability	GMW 3172
Thermal Shock & Water Splash	GMW 3172
Power Temperature Cycle	GMW 3172
Thermal Shock in Air (TS)	GMW 3172

**Tests**

*Environmental Simulation (continued)*

Humidity  
Humidity Heat, Cyclic (HHC)  
Humidity Heat, Constant (HHCC)  
Moisture Susceptibility (Frost)  
Dew Test

*Vibration*

Drop  
Free Fall

**Tests**

*Environmental Simulation*

Connector Lead/Lock Strength  
Mechanical Wearout  
Controls Durability  
Low Temperature Exposure  
Low Temperature Operation  
High Temperature Exposure  
High Temperature Operation  
Power Temperature Cycle  
Thermal Shock in Air (TS)  
  
Humidity-Temperature Cycle  
Water/Fluid Ingress  
Dust  
Chemical Resistance  
Salt Mist  
85/85 High Temp/Humidity Endurance  
High Temperature Endurance

*Vibration*

Mechanical Shock/Drop  
Powered Vibration

**Test Methods**

GMW 3172  
GMW 3172  
GMW 3172  
GMW 3172  
GMW 3172

GMW 3172  
GMW 3172

**Ford Test Methods**

Ford 00.00EA-D11-6, section 4.6.4  
Ford 00.00EA-D11-6, section 4.8.3  
Ford 00.00EA-D11-6, section 4.8.2  
Ford 00.00EA-D11-6, section 4.5.1, table 3.2.1.a/b  
Ford 00.00EA-D11-6, section 4.5.2, table 3.2.1.a/b  
Ford 00.00EA-D11-6, section 4.5.3, table 3.2.1.a/b  
Ford 00.00EA-D11-6, section 4.5.4, table 3.2.1.a/b  
Ford 00.00EA-D11-6, section 4.5.5, table 3.2.1.a/b  
Ford 00.00EA-D11-6, section 4.5.6, table 3.2.1.a/b  
Ford 00.00EA-D11-6, section 4.5.7, table 3.2.1.a/b  
Ford 00.00EA-D11-6, section 4.5.8, table 4(a)  
Ford 00.00EA-D11-6, section 4.5.9, table 3.2.2  
Ford 00.00EA-D11-6, section 4.5.10, table 3.2.3  
Ford 00.00EA-D11-6, section 4.7.2  
Ford 00.00EA-D11-6, section 4.7.1  
Ford 00.00EA-D11-6, section 4.8.4  
Ford 00.00EA-D11-6, section 4.8.1

Ford 00.00EA-D11-6, section 4.6.3  
Ford 00.00EA-D11-6, section 4.6.1

## Tests

## DCX Test Methods

### Environmental Simulation

#### Climatic Stresses

Shipping/Storage Temp Exposure	DC-10611, section 6.1.1
Low Temp Operating Endurance	DC-10611, section 6.1.2
High Temp Operating Endurance	DC-10611, section 6.1.3
Powered Temp Cycling Endurance	DC-10611, section 6.1.4
Thermal Shock	DC-10611, section 6.1.5
Thermal Humidity Cycle	DC-10611, section 6.1.7
High Temp/Humidity Endurance	DC-10611, section 6.1.8
Solar Radiation Soak	DC-10611, section 6.1.9

#### Solids/Fluids

Dust	DC-10611, section 6.3.1
Water Intrusion	DC-10611, section 6.3.2
High Pressure Steam Jet	DC-10611, section 6.3.3
Salt Water Immersion	DC-10611, section 6.3.4

#### Chemical Resistance

Salt Fog	DC-10611, section 6.4.2
Chemical Exposure (cabin)	DC-10611, section 6.4.3
Chemical Exposure (exterior)	DC-10611, section 6.4.4

#### Mechanical Stresses

Vibration	DC-10611, section 6.2.1
Mechanical Shock	DC-10611, section 6.2.2
Mechanical Shock Endurance	DC-10611, section 6.2.3
Package Drop	DC-10611, section 6.2.4
Handling Drop	DC-10611, section 6.2.5

### On the following products and materials:

Abrasives; Automotive Components; Coatings; Glass and Glass Products; Textiles; Instrument Clusters; and Circuit Boards.



World Class Accreditation

The American Association for Laboratory Accreditation

# *Accredited Laboratory*

A2LA has accredited

## **TRIALON CORPORATION**

*Burton, MI*

for technical competence in the field of

### **Mechanical Testing**

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 *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 8 January 2009*).

Presented this 23rd day of August 2010.



  
\_\_\_\_\_  
Peter Meyer

President & CEO  
For the Accreditation Council  
Certificate Number 1123.03  
Valid to May 31, 2012

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