



The American Association for Laboratory Accreditation

World Class Accreditation

Accredited Laboratory

A2LA has accredited

ADVANCED TESTING & ENGINEERING, INC.

Taylor, 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 28th day of January 2010.



A handwritten signature in black ink, appearing to read "Peter Abney".

President & CEO
For the Accreditation Council
Certificate Number 1901.01
Valid to January 31, 2012

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



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

ADVANCED TESTING & ENGINEERING, INC.

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Taylor, Michigan 48180

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MECHANICAL

Valid To: January 31, 2012

Certificate Number: 1901.01

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

<u>Test</u>	<u>Parameter</u>	<u>Test method</u>
High / Low Temperature	(-40 to 120) °C, 62 ft ³	Customer Specifications
Humidity	(20 to 95) % relative humidity, 62 ft ³	Customer Specifications
Vibration	(1 to 2500) Hz	Customer Specifications; Ford CETP: 09.02-E-302, 09.02-E-304, 09.02-E-308, 09.02-E-309; GMPT Catalytic Converter Assembly; CTS section 4.4.2.1; DCX PF-9019 section 2.4
Sine	20,000 lbs-f	
Random	20,000 lbs-f	
Durability		Customer Specifications Ford CETP: 09.02-E302, 09.02-E-304, 09.02-E-308, 09.02-E-309; GMPT Catalytic Converter Assembly; CTS section 4.4.2.1; DCX PF-9019 section 2.4
Mechanical Cycling		
Hot Vibration		
Axial and Bending Fatigue	50,000 lbs max.	DCX PF-9019 section 2.4
Ultimate Strength	50,000 lbs max.	Customer Specifications
Multiple Inputs	Data Acq 16 voltage, 14 temp.	Customer Specifications
High Temperature Air Flow	600 cfm, 1200°C max.	GMPT Catalytic Converter Assembly; CTS section 4.4.2.1; Ford CETP: 09.02-E-300, 09.02-E-301
Thermal Shock (Waterspray)		Ford CETP: 09.02-E-301; DCX PF-9019 section 2.4; GMPT Catalytic Converter Assembly; CTS section 4.4.2.1

<u>Test</u>	<u>Parameter</u>	<u>Test method</u>
High Temperature Air Flow (continued) Airflow Thermal Shock		GMPT Catalytic Converter Assembly; CTS section 4.4.2.1
Airleak Testing		Customer Specifications
Acoustic Measurements	6Hz to 20 kHz, (45 to 138) dB, in anechoic chamber	Toyota Eng Standard TS 06542G

On the following automotive components:

- Seating Systems and Components
- Exhaust Systems and Components
- Shock Absorbers
- Interior and Exterior Trim
- Structural Components
- Stampings

Using customer supplied test methods (or methods developed by the lab and approved by the client) directly related to the capabilities listed above, including the following: Daimler-Chrysler PF-9019 section 2.4, PF-8401, PF-10254; Ford CETP: 09.00-E-300; S98AG-18080-AB sections 5.1, 5.7 – 5.10 & 5.15, S98AG-18045-AF sections 5.1, 5.7 – 5.10; SDS Seat Systems DVM-0016 – DVM-0066 (ST Only); GM 03.57.1009.R1 section 4.0; Autoliv E006131, revision 00 section 5.2