



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

EATON – AEROSPACE TEST FACILITIES

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MECHANICAL

Valid To: March 31, 2019

Certificate Number: 2024.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following tests on aerospace and automotive hoses, couplings, fittings and assemblies:

<u>Test</u>	<u>Method (Hose)</u>	<u>Method (Coupling)</u>
Air Aging	AS604, AS614, AS620, AS1227, AS1339, AS1975	
Air Inclusion		AS1709
Assembly Flexure	AS604, AS614, AS1339, AS1975, AS2078	AS1650
Contaminated Fuel Flow		ARP1616
Differential Temperature		MIL-DTL-5513
Electrical Conductivity	AS604, AS614, AS620, AS1227, AS1339, AS1975, AS2078	
Elongation and Contraction	AS604, AS614, AS620, AS1227, AS1339, AS1975, AS2078	
Endurance (Connect/Disconnect)		AS1709
Examination of Product (Visual Examination and Mass Only)	AS604, AS614, AS620, AS1227, AS1339, AS1975	ARP1616; AS1709; MIL-DTL-5513

<u>Test</u>	<u>Method (Hose)</u>	<u>Method (Coupling)</u>
Extreme Temperature Functioning		AS1709; MIL-DTL-5513
Fire Resistance	AS604, AS614, AS620, AS1055, AS1227, AS1339, AS1975; AIR1377; ISO 2685	
Flex and Vacuum	AS620, AS1227	
Fluid Pressure Cycling Induced Fatigue Loading	Boeing SCD-S781Z004	Boeing SCD-S781Z004
Fluid Susceptibility	RTCA/DO 160G (sec. 11)	RTCA/DO 160G (sec. 11)
Fuel Resistance	AS620	
Gunfire (0.50 Caliber)	Eaton-ACES 1563	
High Temperature Burst	AS620, AS1227, AS1339, AS1975, AS2078	
Icing		MIL-DTL-5513; RTCA/DO 160G (sec. 24)
Immersion		MIL-DTL-5513
Leakage	AS604, AS614, AS620, AS1227, AS1339, AS1975, AS2078	AS1709, AS2078; MIL-DTL-5513
Manual Operation		AS1709
Oil Aging	AS604, AS614, AS620, AS1227, AS1339, AS1975	
Oil Resistance	AS620, AS1227	
Pneumatic Effusion	AS604, AS614, AS1339, AS1975, AS2078	
Pneumatic Surge	AS604, AS614, AS1339, AS1975, AS2078	



<b><u>Test</u></b>	<b><u>Method (Hose)</u></b>	<b><u>Method (Coupling)</u></b>
Pressure Drop Oil Flow Fuel Flow Skydrol Fluid		ARP1616; AS1709; MIL-DTL-5513
Pressure Impulse	AS603, AS604, AS614, AS1339, AS1975	ARP1383; AS603, AS1709; MIL-DTL-5513
Pressure Surge	AS620, AS1227	
Proof Pressure	AS604, AS614, AS620, AS1227, AS1339, AS1975; ISO 10583	ARP1616; AS1709; MIL-DTL-5513
Push/Pull	AS1975, AS2078	
Repeated Assembly	AS604, AS614, AS620, AS1339, AS1975; ARP908	
Room Temperature Burst	AS604, AS614, AS620, AS1227, AS1339, AS1975; ARP1616	ARP1616
Rotary Flex	ARP1185	
Salt Fog	ASTM B117; MIL-STD-810G (509); RTCA/DO 160G (sec. 14)	ASTM B117; MIL-STD-810G (509); RTCA/DO 160G (sec. 14)
Stress Degradation	AS604, AS614, AS1339, AS1975, AS2078	
Surge Flow		ARP1616; AS1709
Swivel Torque		MIL-DTL-5513 (sec. 4.6.7)
Temp/RH Exposure	MIL-STD-810G (501, 502, 507); RTCA/DO 160G (sec. 5, 6)	MIL-STD-810G (501, 502, 507); RTCA/DO 160G (sec. 5, 6)
Tension/Compression		ARP1616 (sec. 4.6.13)
Thermal Shock	AS604, AS614, AS1339, AS1975, AS2078	

<b><u>Test</u></b>	<b><u>Method (Hose)</u></b>	<b><u>Method (Coupling)</u></b>
Vacuum		ARP1616; AS1709; MIL-DTL-5513
Vibration Sine Random Sine on Random	MIL-STD-810G (514); RTCA/DO 160G (sec. 8)	MIL-STD-810G (514); RTCA/DO 160G (sec. 8); AS1650, AS1709, AS1895, AS1960, AS4751
Shock		MIL-STD-810G (516); RTCA/DO 160G (sec. 7)
Volumetric Expansion	ASTM D380; AS604, AS614, AS1339, AS1975, AS2078	





## *Accredited Laboratory*

A2LA has accredited

### **EATON-AEROSPACE TEST FACILITIES**

*Jackson, 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 22<sup>nd</sup> day of February 2017.

A handwritten signature in black ink, written over a horizontal line.

President and CEO  
For the Accreditation Council  
Certificate Number 2024.01  
Valid to March 31, 2019

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