SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

IBR - INTER BASIC RESOURCES
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MECHANICAL

Valid To: August 31, 2018 Certificate Number: 1362.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following types of mechanical tests on Filters and Components:

Test Technology	**Test Method(s)**
Process Filter Efficiency and Capacity	ASTM F795-88 (*Withdrawn 2002*)[1]
Initial Air Filter Fractional Efficiency	ASHRAE 52.2; ISO 11155-1, 12500-1, -3; IEC 60335-2-69 (Annex AA); EN 779
Air Coalescing Filter Saturated Efficiency	ISO 12500-1
HVAC Filter Efficiency and Capacity	ASHRAE 52.2; EN 779
HEPA and ULPA Filter Efficiency	IEST RP CC001, CC007, CC021; EN 1822-1, -2, -3, and -5
Fuel/Water Separator Efficiency Capacity	ISO 4020, 16332; SAE J1488
Oil Filter Efficiency, Capacity, Permeability, Media Migration, Collapse, Impulse, Burst and Relief Valve	SAE HS-806; ISO 4548, 16889; JIS 1611
Fuel Filter Efficiency, Capacity, Permeability, Media Migration	SAE J905, J1985; ISO 4020, 19438
Particulate Filtration	NSF 42, 53, 58

Test Technology	**Test Method(s)**
Vacuum Cleaner Fractional Efficiency	ASTM F1977, F2608; IEC 62885-2
Vacuum Cleaner Performance – Air Power Pickup and Sustained Performance	IEC 62885-2, 60335-2-69 (Annex AA); ASTM F558, F608, F2607
Cleanliness of Fluids from Components and Systems	ISO 16232
Fluid Contamination by Gravimetry	ISO 4405, 16232
Fluid Contamination by Microscope	ISO 4407, 16232; ASP 598; ASTM F312
Engine Intake Air Cleaner Testing	ISO 5011
Room Air Cleaner Efficiency	AHAM AC-1
Visual Inspection	IEC 60335-2-69 (Annex AA)

Within the following operational ranges:

Parameter	**Range**
Flow – Water	To 100 gpm
Flow – Oil and Fuel	To 150 gpm
Flow – Air	To 4,000 scfm
Temperature – Water	(10 to 90) ºC
Temperature – Oil and Fuel	(Ambient to 160) ºC
Temperature – Air	(Ambient to 100) ºC
Pressure – Water	To 100 psig
Pressure – Oil and Fuel	To 3,000 psig
Pressure – Air	(5 (vacuum) to 100) psig
Particle size – Water	(0.1 to 1000) micron
Particle size – Oil and Fuel	(1 to 1000) micron
Particle size – Air	(0.01 to 100) micron

[1] This laboratory's scope contains withdrawn methods. As a clarifier, this indicates that the applicable method itself has been withdrawn or is now considered "historical" and not that the laboratory's accreditation for the method has been withdrawn.

Accredited Laboratory

A2LA has accredited

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Grass Lake, 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 30th day of January 2017.

President and CEO
For the Accreditation Council
Certificate Number 1362.01
Valid to August 31, 2018

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