

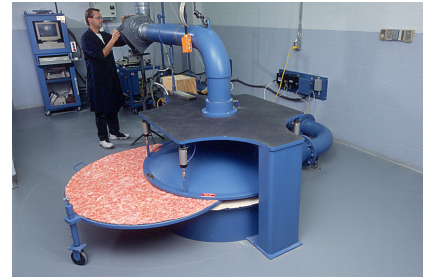
TECH TIPS

Filter Performance Testing

February 2012

There are industry standardized tests that have been established to determine the performance level of air and liquid filters. While not mandatory for use by all filter companies, Baldwin Filters chooses to perform these tests to determine the performance level of our product versus the original equipment (OE) manufacturers' performance specification or product as well as our product versus aftermarket filter brands. Use of these standard tests ensures that the Baldwin filter is tested under the exact same conditions as the filter we are comparing it to.

Following are some of the more common tests that have been established by the Society of Automotive Engineers (SAE) and/or the International Standards Organization (ISO). All use standardized test contaminant and fluid (if liquid) specific to the test.



Air

ISO 5011 – This test identifies the contaminant removal efficiency (percent of contaminant removed by the filter) and the contaminant holding capacity (grams of contaminant removed by the filter).

ISO TS19713-1, TS19713-2 – These tests identify the contaminant removal efficiency of a specific particle size (in microns) and the contaminant holding capacity.

Fuel, Hydraulic, Lube

ISO 19438 – This multi-pass fuel filter test identifies the contaminant removal efficiency of a specific particle size (in microns) and the contaminant holding capacity.

SAE J1488 – This fuel filter test identifies the water removal efficiency (percent of water removed by the filter).

ISO 16889 – This multi-pass hydraulic filter test identifies the contaminant removal efficiency of a specific particle size (in microns) and the contaminant holding capacity. This test also provides a beta ratio.

SAE HS806 – This lube filter test identifies the contaminant removal efficiency and the contaminant holding capacity.

ISO 4548-12 – This multi-pass lube filter test identifies the contaminant removal efficiency of a specific particle size (in microns) and the contaminant holding capacity. This test also provides a beta ratio.

Standardized tests are also used to determine the structural integrity and flow properties of the filter as well.

The preceding information is available online at www.baldwinfilter.com/techtips.html.

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