Performance Data Sheet

LF9050

Venturi™ Combo Filter

Description

Cummins® Filtration Venturi Combo Lube Filter technology delivers best in class performance and provides high efficiency filtration for extended protection to the engine and components. Its unique Full-Flow plus Stacked Disc design delivers optimum performance and reliable operation, maximizing equipment operating time and lowering costs.

Features

Full-Flow Section with StrataPore™ Media – Patented media with gradient density provides high efficiency with low cold start restriction and high capacity for contaminants.

Stacked Disc (By-Pass) Media – Regular Full-Flow media is not capable of filtering and holding fine organic (sludge) contaminants, but the Stacked Disc media, made with compressed fibers, not only removes fine damage-causing particulates, but also provides the attraction medium (cellulose) for greater sludge holding capability.

Venturi Nozzle – The unique design of the Venturi tube directs more oil flow through the high efficiency Stacked Disc section without compromising the cold flow ability.

Benefits

- Longer service intervals
- Reduced maintenance costs
- Lower operating costs
- Longer component life
- Fine particle removal extends engine life
  - » Stacked Disc filter removes fine particles from the oil
  - » Oil travels directly to engine components
  - » Protects Turbos and Fuel Injection Equipment (FIE)
  - » Protects highly loaded components (the valve train, for example)
- Sludge removal for cost-saving oil change interval options
  - » Removes soot and sludge introduced into the oil by the latest aftertreatment systems
- Sludge/particle removal for low TCO (Total Cost of Ownership)
  - » Stacked Disc section protects the Full-Flow portion for longer overall system service life

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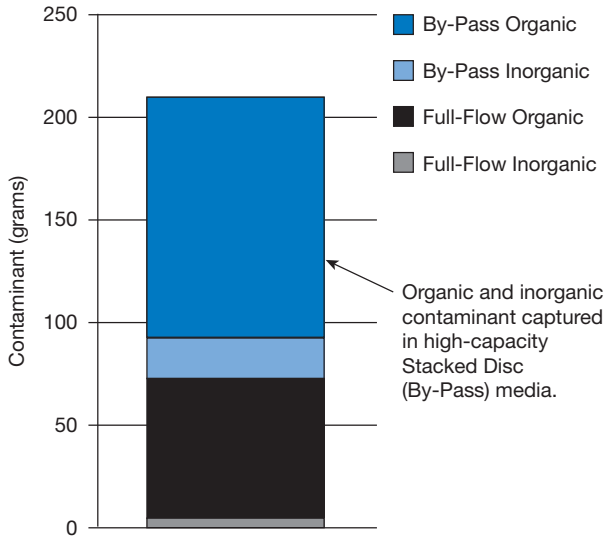
Specifications

Capacity	45 g (Full-Flow) + additional Stacked Disc section capacity*
10 Micron Efficiency	60%
30 Micron Efficiency	98.70%
Rated Flow	39.63 gal/min (150 L/min)
Dome Outside Diameter	4.72" (119.9 mm)
Gasket Inside Diameter	4" (102 mm)
Gasket Outside Diameter	4.68" (118.9 mm)
Media Bypass Disc Height	3.185" (80.9 mm)
Overall Height	11.708" (297.38 mm)
Seam Outside Diameter	4.72" (119.9 mm)
Thread Size	M90 X 2-7H

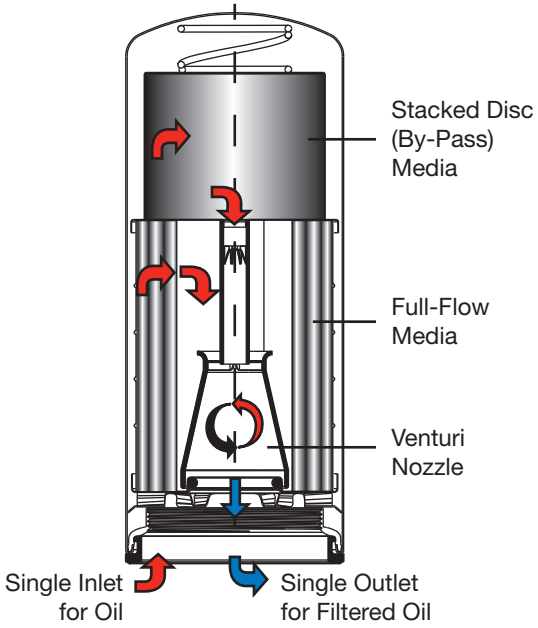
* The Stacked Disc has a large effective contaminant holding surface area. The Stacked Disc removes 3 to 5 times as much material as the Full-Flow Element, giving the Venturi Combo filter a SIGNIFICANT benefit in capacity compared to competitive Full-Flow only filters.

Performance



Note: In actual field operating conditions, approximately 75-80% of the contaminants in the oil are organic (sludge) which is difficult to capture through regular pleated media. The contaminants are also difficult to generate in a lab test stand hence, the dirt holding capacity of a lube filter may not always be the best gauge of its capability.

Oil Flow



Installation Tips

- Installation instructions are provided on the filter.
- Always pre-fill with oil on the “dirty” side of the filter (on the outer side of the filter).
- Always clean and oil the gasket before installation. Do NOT use grease.
- After installing a new filter, start the engine and wait for a few minutes, then check for leaks.

Recommended Service Intervals*

- Replace filter every 250 hours or 6 months, whichever occurs first.

* Service intervals are for spin-on filters on Cummins QSK series engines without Centrifuge and without Centinel™. For more application details, refer to the online catalog at cumminsfiltration.com or contact your local Customer Assistance Center. Refer to the engine owner's manual - OEM recommended oil grade and oil change intervals should always be followed.

For more detailed information, refer to the **Fleetguard Technical Information Catalog – LT32599** or visit **Fleetschool** at **cumminsfiltration.com**. To find the nearest retailer of Fleetguard products, visit **cumminsfiltration.com/wrl**.

Filtration

For more information, visit cumminsfiltration.com

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