



## Clean oil is essential

Clean oil is critical for equipment to operate in the toughest conditions. With the demand for extended oil drain intervals, Baldwin has developed the High Velocity Dual-Flow and Severe Service® filters to provide maximum filtration to meet today's equipment demands.

High Velocity Dual-Flow spin-on design is superior to standard full-flow/by-pass designs in that a larger portion of the flow travels through the high efficiency element, removing more small contaminants.

Severe Service filters feature glue beads around the filter media for additional strength.

Baldwin engineers have been researching the effects of extended oil drain intervals for more than 30 years and agree that extended oil drain intervals should be approached with caution.

While extended intervals may save money in the short run, it is important to remember that improperly managed oil change intervals can lead to accelerated engine wear and costly engine rebuilds. Regularly scheduled oil analysis should be used to help determine your equipment's service interval.

## Depend on Baldwin Filters

Protect your equipment with heavy-duty Baldwin filters. When it comes to coverage, Baldwin Filters provides the widest range of heavy-duty lube, air, fuel, coolant, hydraulic and transmission filters in the industry.

Baldwin consistently manufactures filters designed to meet or exceed the quality, performance and supply requirements of original equipment and aftermarket customers.

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# Lube System Protection



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## Heavy-duty protection

Improved high-performance engines and new emission standards have had a significant impact on the development of oils and oil filters. As manufacturers continue to develop more sophisticated engines, new classifications of oils will continue to be developed.

These new oils play a vital part in protecting engines by reducing friction and wear, cooling engine parts, sealing combustion chambers, cleaning engine components and inhibiting corrosion. Lube filters also play a critical role in protecting engines by removing damaging contaminants from the oil.

Lube filters trap oil contaminants in two ways:

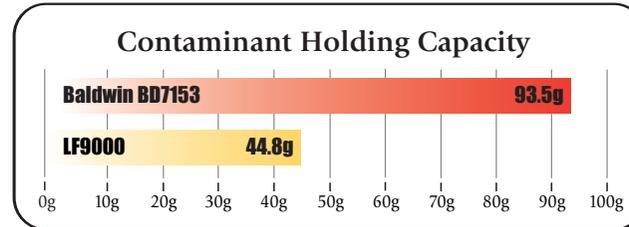
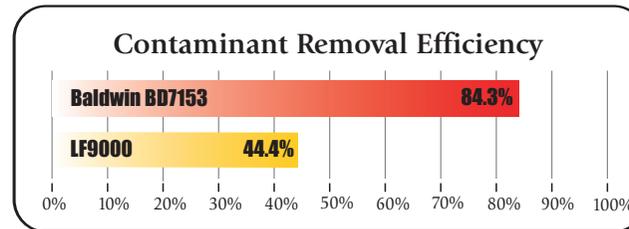
- Some particles adhere to the filter media as the oil flows through the filter. These particles attach themselves to the media surface without plugging the media pores.
- Other particles are trapped in the filter media by the pressure of the oil as it flows through the filter.

Baldwin Filters has been making lube filters for over seventy years. With more than 650 lube filters for most heavy-duty and automotive applications, Baldwin has the coverage and quality you demand.

## Maximum performance

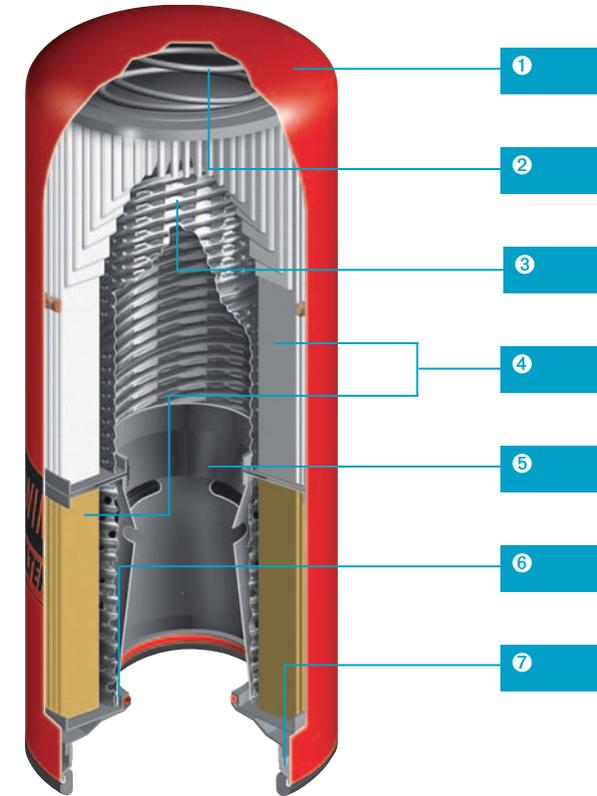
Baldwin lube filters are manufactured to meet or exceed the original equipment specifications established by engine manufacturers.

The following data illustrates how Baldwin filters compare to the competition. The results of ISO 4548-12 laboratory test, performed per Cummins Engineering Standard 10765, prove Baldwin Filters' High Velocity Dual-Flow® design is superior in contaminant removal efficiency and contaminant holding capacity.



ISO 4548-12 Test: Flow Rate 39.6 gpm, 100°F, Termination at 10.2 psid.  
Efficiency time weighted average at 10 microns.

## High Velocity Dual-Flow Lube



- 1 **Heavy-Duty, All-Metal Housing** provides unequalled burst- and pulse-withstanding strength.
- 2 **Steel Coil Spring** keeps its shape, maintaining a positive load pressure on the elements.
- 3 **Spiral Wound Lowered Centertube** with fluted ribs allows for maximum flow and adds strength to resist pressure surges.
- 4 **Patent Pending Design** provides maximum contaminant holding capacity and contaminant removal efficiency, while minimizing flow restriction during operation and cold start-ups.
- 5 **High Velocity Dual-Flow Nozzle** uses a venturi-type cone to balance the flow between the elements, taking advantage of the positive filtering properties of each.
- 6 **Heavy-Duty Steel Retainer and End Cap** are welded together to prevent the post seal from dislodging.
- 7 **Heavy-Duty Steel Baseplate** is joined to the can with a J-lock seam, reducing the possibility of leakage due to high pressure.

