





A Comparison of MagDog to Other Magnetic Filtration Device Claims

MagDog	Full-Flow Filters	Wrap-Arounds	Magnetic Plugs
			
<p>MagDog is sited between the engine and spin-on oil filter. Oil comes into direct contact with Neodymium magnets capped with flux concentrators to increase surface attraction area</p>	<p>These devices are also located between the engine and spin-on oil filter. They attempt to capture debris as the oil pass through them at full flow.</p>	<p>Wrap-around filters attach to the outside of the oil filter. They rely on powerful magnets (typically Neodymium) to hold the captured against the filter wall.</p>	<p>The use of magnets on the end of the oil sump plug to capture ferrous debris has been around for many years.</p>
<p>Parallel bypass cross-flow (PBXF), a patented technology, ensures that a measured, constant flow of oil passes through the device. This action virtually eliminates wash-off due to surges.</p>	<p>Oil enters into the full-flow filter at the flow rate provided by the oil pump. This exposes the captured debris to viscosity or high RPM surges and subjects it to potential wash-off.</p>	<p>Debris does not come into contact with the magnets. Instead, it is held in place by the power of the magnet against the filter wall. This can become problematic during bypass valve operation, high RPM surges, or viscous cold flow.</p>	<p>To be captured, the debris must get very close to the plug. This is an opportunistic, not a sure approach.</p>
<p>MagDog can be opened, inspected, and cleaned, generally about every 25,000 miles under normal use. The unit does not have to be removed during an oil filter change.</p>	<p>These units, for the most part, cannot be opened. Some are designed to be used a set number of times and then discarded.</p>	<p>These filters must be removed at every oil filter change. Several require special tools. The only way to determine their effectiveness is to cut open the dirty oil filter, which may cross-contaminate.</p>	<p>Magnetic sump plugs are easily removed, inspected, and cleaned at every oil change.</p>
<p>The port provides an access point for a gauge, bypass filter, oil sampling, turbocharger oil line, accumulator, or for prelubrication. MagDog can be bundled with a reusable oil filter (see TopDog).</p>	<p>Full-flow magnetic filters are a single function device – to trap ferrous debris.</p>	<p>Wrap-around filters also have only a single function – to trap ferrous debris.</p>	<p>This device contains and holds captured debris in the sump. It is a simple, inexpensive, but only a partial solution.</p>

