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Product Focus

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ENGINE SENTRY

Due to the thick viscosity of engine oils, today's oil filters are not completely capable of filtering out particles smaller than 30-40 microns. These small, very destructive particles are created as the engine is run normally, and remain continuously re-circulated in the engine. The films of oil that protect moving engine parts from wear are 2-5 microns in thickness. As the pistons move up and down against the cylinder walls, particles that are as much as 20 times thicker than the protective oil film are squeezed between the piston and wall causing accelerated engine wear.

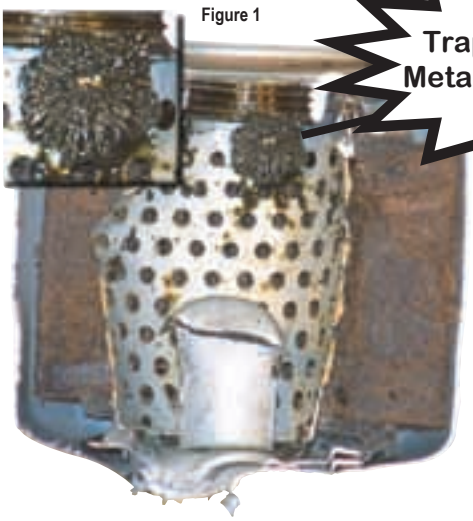
Engine Sentry™ is an extremely powerful, high-temperature, nickel-coated, sphere-shaped magnet that is installed manually, without tools, into any oil filter core. Installation time is approximately 15-seconds. Installed, Engine Sentry™ immediately attracts and holds ferrous materials. As the surface of Engine Sentry™ becomes cluttered with these small steel shavings, they create a trap for other contaminants including sludge, salts, carbon, nickel, chromium, silver, copper, aluminum, and magnesium.

Benefits of use include extended engine life, cooler engine oil temperatures, improved lubricity, improved oil filter performance and extended engine oil performance.

Apply in any disposable, spin-on oil filter. A new Engine Sentry™ is installed at each oil change. Engines owners with over 25,000 miles should consider using two Engine Sentry™ the first time to remove existing accumulations of metals and other debris. High-performance engine owners should consider using two Engine Sentry™ at all times.

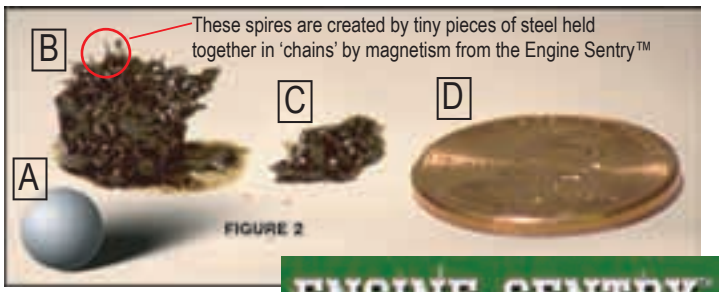
Figure 1: Used oil filter removed from a 2001 Honda Valkyrie with 9,200 total miles. Oil used and then changed after 2,500 miles. Yellow circles indicate Engine Sentry™ location. Inset is close-up of Engine Sentry™. Note: minor shifting of some matter occurred during machine cutting of the used filter.

Figure 1



Traps Destructive Metal Shavings in Oil

Figure 2: Debris removed from the filter shown in Figure 1. A) To-scale art showing size of the Engine Sentry™ that is underneath the debris in B. B) the Engine Sentry™ with debris attached. C) Contaminants scraped from the Engine Sentry™. D) Penny shown for scale.



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