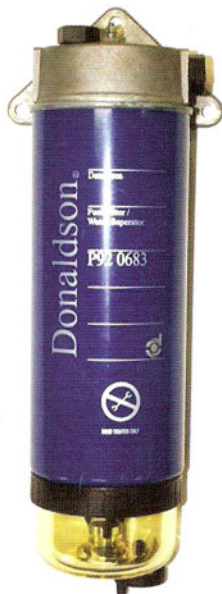


# Donaldson takes filtration further

**C**AN you drink diesel? Obviously not. So it's not surprising, then, that your engine chokes on water.

Donaldson's fuel filter water separator provides clean, filtered fuel that prevents pump and injector wear. Armed with a hydrophobic medium, emulsified water and other contaminants are trapped and therefore prevented from entering and damaging engines.

Contamination of fuel can occur in numerous ways. Particulate and debris can enter when fuel is transferred between storage tanks. Water can ingress because of condensation on the inside wall of the fuel tank and by being pumped in from storage tanks where condensation and leaks are prevalent. Microbes (bacteria) can grow in the water. Asphaltene are tar-like hydrocarbon chains that form when fuel is heated and cooled. Air can contaminate the fuel when leaks occur in the fuel line and system connections.



Fuel filter water separators remove contaminant and debris from the fuel just as a regular fuel filter would. The fuel enters the filter from the outside and contaminants are stopped by the filter element.

However, fuel filter water separators have filter media designed to remove water from the fuel. This water coalesces and drops to the bottom of the filter into the sump. Coalescing occurs as small water droplets collect and merge into larger droplets. Eventually, they become heavy and gravity causes them to fall to the bottom. Think of how water accumulates on your windshield as it rains: eventually the smaller drops merge with others to form larger droplets that run down the windshield.

The fuel filter water separator is easy to install, is said to have a longer life than standard fuel filters and reportedly reduces maintenance costs and downtime. It has been proven that correct filtration extends engine life and reduces fuel consumption.