

In-Tank Filtration Solutions in Transportation

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ABSTRACT

Inside the typical gasoline vehicle's fuel tank is an unusual device that keeps dirt from entering and seizing the fuel pump. It's the molded in-tank fuel filter, also known as a strainer, a pump filter, or a sock filter. This filtration technology has been used for gasoline filtration since the days of the carbureted engine. Now manufacturers are exploring its use with Diesel Emissions Fluid, aka Urea. The molded in-tank filter will be examined as well as the unique benefits it brings to the DEF system.

BIOGRAPHY, SHORT SKETCH

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- Julie Graber is Product Development Manager for Cummins Filtration's Light Duty Automotive division and is a certified green belt in Design for Six Sigma. She is responsible for product research and technology, product and filter media development, and product testing.
- Julie received her Bachelor's of Science in Mechanical Engineering with Honors from The University of Toledo in 1994 and is currently pursuing her Master's in Engineering.
- In 2006 Julie was presented the Cummins' Chairman's Quality Award for Six Sigma.
- She is co-inventor of three US patents and is a member of the Society of Automotive Engineers, the SAE Filter Test Methods Committee and the Product Development and Management Association.
- Julie wrote and presented the technical paper "Presentation of a Standard Dust Capacity Test Method for Gasoline Vehicle Fuel Delivery Modules" at the AFS 2005 Fall Conference.