

## First in the world: the panel diesel fuel filter designed by Sogefi for the Ford 6.7l diesel Power Stroke® engine in USA

**Frankfurt (Automechanika), 16th September, 2016** – Ford selected Sogefi to develop and supply the diesel fuel filter for its 6.7-liter Power Stroke® V8 turbo diesel engine in USA. This engine is dedicated to Ford F-Series Super Duty (F250, F350, F450 and F550), America's best-selling heavy-duty pickup truck, with best-in-class horsepower and torque.

For this purpose Sogefi has developed a new revolutionary product: the panel diesel fuel filter module.

Made up of plastic material, the "flat panel" shape allows volume optimization and distribution within the vehicle and can be therefore fitted where a cylinder couldn't. Moreover, the localization close to the fuel tank and the design of this part has permitted to remove the heavy and bulky metallic crash shield. A specific focus has been set on the risk of graveling, which has led to significant ribs reinforcement. The filter is then completely safe from any stone and gravel projection during driving.

The plastic material architecture makes it lighter than metal contributing to save fuel. Moreover, it also protects better the system against any bacteria proliferation that can be generated by biofuels.

Beyond the revolutionary shape, this module reflects all the high technologies developed by Sogefi as diesel filter expert:

- Full protection against water intrusion thanks to Diesel3Tech+™ for water separation
- Enhanced safety versus electrostatic accumulation
- Resistance to extreme conditions
- Recirculation module for diesel reheating

Diesel3Tech™ technology is well known by the market. It was introduced in 2010 for efficient water protection of Fuel Injection Systems enable to meet European Euro 5, and US Tier 2 B in 5 emissions regulations. This technology was pushed to its limits (using enhanced hydrophobic layer) in order to meet following water removal requirements.

However, for forthcoming TierIII and Euro 6c generation vehicles (2017), new water separation levels requirements needed a new approach. Diesel3Tech+™ technology has been set-up and is now capable of water removal efficiencies up to 99% with water droplet size as low as 10µm (versus 60 µm for Diesel3Tech™).

The Diesel3Tech+™ technology separates water droplets from fuel and stores them in a dedicated water tank. When the maximum level is reached, the water in fuel sensor lights up a warning light on the dashboard and the separated water can be removed from the specific tank through the drain screw. The filter protects both engine and injection system, even with extreme water contamination conditions.

The filter media itself is designed to offer very high efficiency for particles down to 4 microns, ensuring a very long life of the high pressure pump and the injectors.

The filter also provides an electrostatic ground pin directly implemented in the water sensor to avoid electrostatic accumulation, thus contributing to vehicle and passengers' safety.

This flat panel diesel fuel filter confirms Sogefi's commitment to innovation aiming at customer satisfaction through performance.

