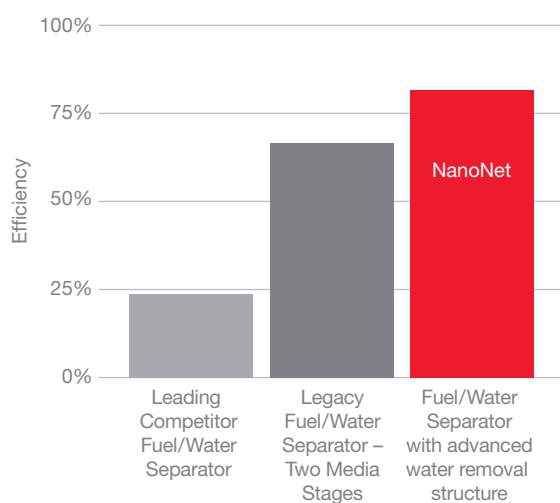




- Nanofiber media is a proven protection for common rail systems
- Between 10 to 13 times more effective than competitive products at removing and/or retaining particles
- Protects your injectors better throughout the filter's service interval
- Not affected by water in fuel like conventional cellulose filters
- Traps and retains contaminants even under real world vibration and flow surge
- Can extend service intervals, maintain high efficiency, reduce downtime and maintenance costs.

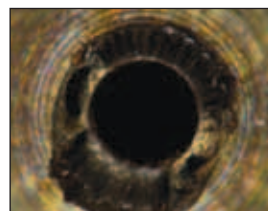
End of Service Life Emulsified Water Removal



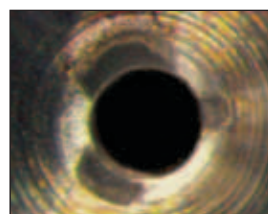
The NanoNet Advantage...

NanoNet™ media does not contain cellulose fibers and unlike conventional filters NanoNet provides the structural integrity needed for a high level of performance. **NanoNet provides 3x more protection** throughout the life of the filter than the next best competitive product.

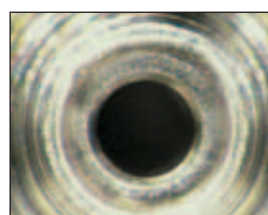
Diesel Metering Valve (DMV) Seat



Field Failure
After teardown observation



Dust in Fuel
Testing with competitor media (after 50 hours)



Dust in Fuel
Testing with NanoNet media (no failure after 190 hours)

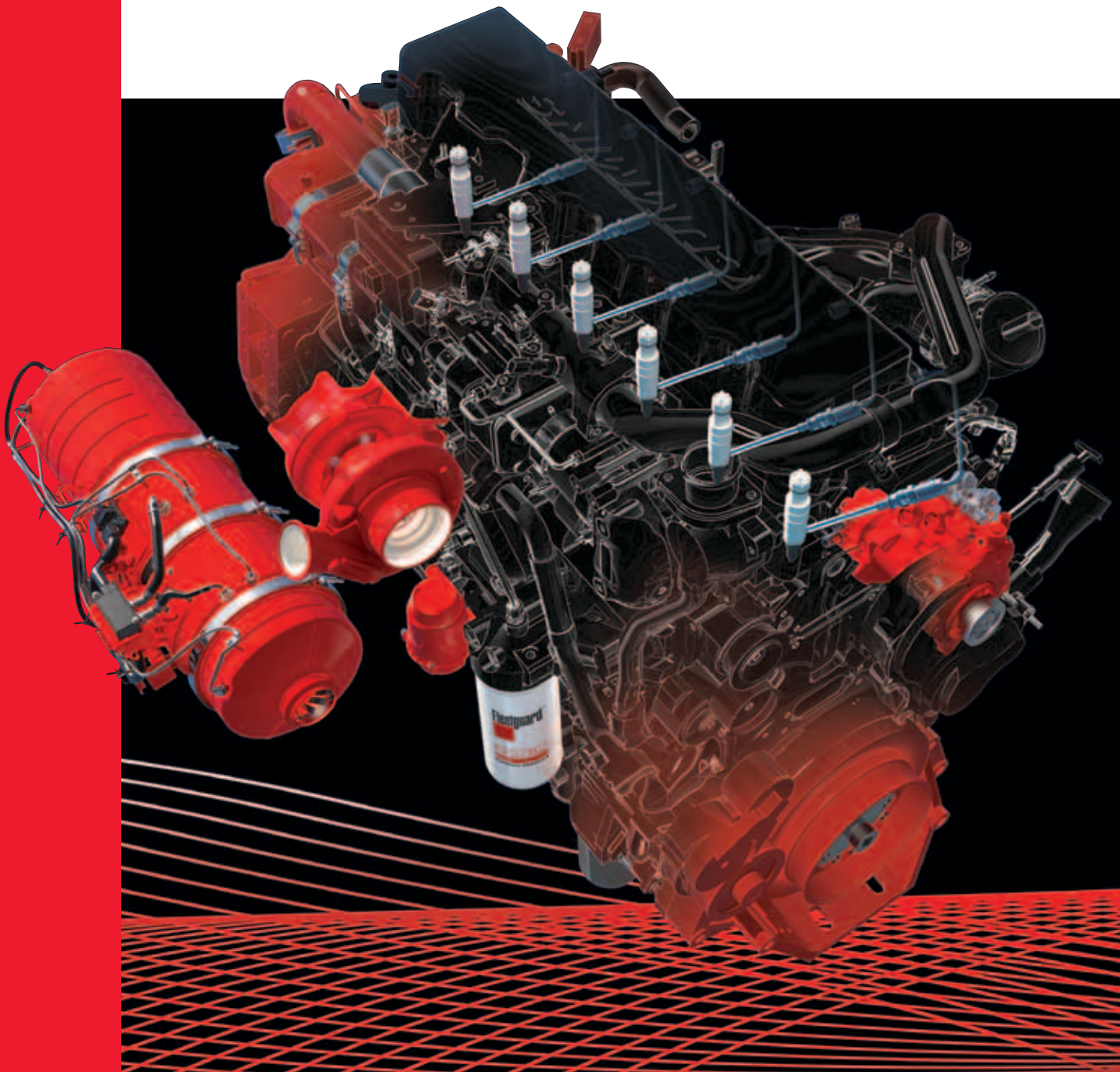


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Empowering Technologies



Stage V Technologies

Cummins offer a range of next generation technological solutions including turbochargers, filters, fuel systems and aftertreatment systems for the off-highway market. With advancements in turbocharger capabilities and the latest innovations in aftertreatment technology, Cummins provides customers with reliable, durable and efficient technologies to meet Stage V engine requirements.

Single Module™



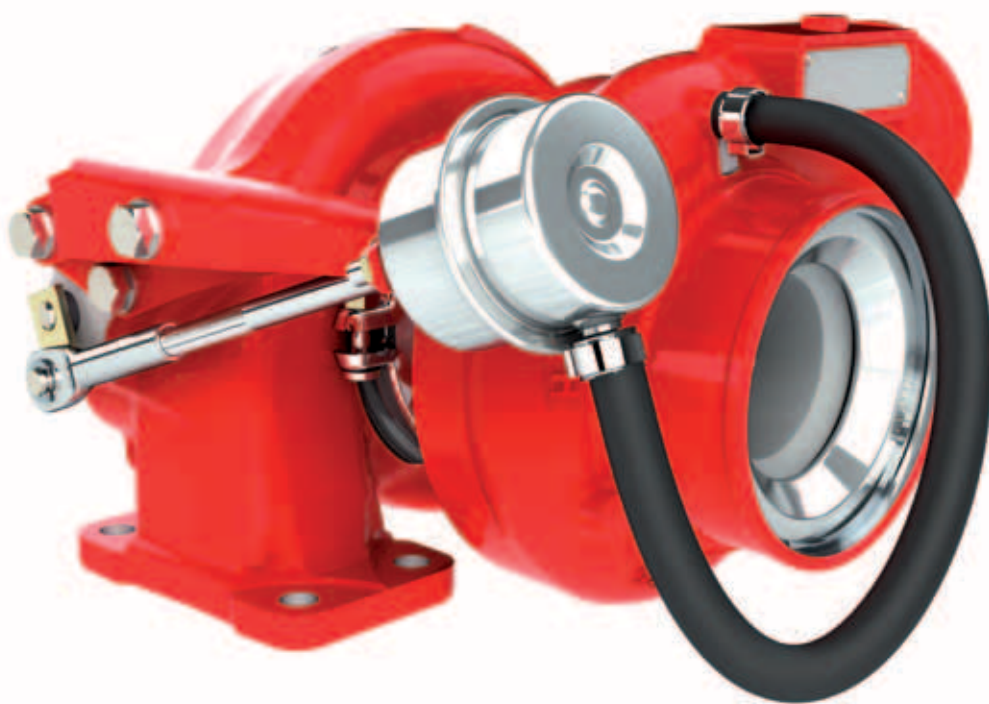
Product Features

- Single-cylinder design offers improved particulate matter (PM) and oxides of nitrogen (NOx) reduction capabilities
- Reductions of up to 50% in claim space and 30% in weight (compared to DPF & SCR systems currently in production for today's markets)
- Fewer active regenerations are required for soot management in the DPF system
- Catalyst diameters range from 9 inches to 13 inches
- Optimized SCR functionality with the use of the UL2 Urea Dosing System
- Urea is continuously present within the dosing unit, preventing crystallization and clogging
- The Compact Mixer optimizes urea mixing while helping to minimize the risk of urea deposits, ensuring efficient operation during NOx conversion.

Customer Benefits

- More robust and reliable system due to simplified packaging and optimized on-board diagnostics (OBD)
- Greater ash capacity for long maintenance intervals
- Optimized for accessibility and serviceability resulting in simplified maintenance
- Minimized need for regeneration and preventative cleaning, reducing fuel consumption
- Meets multiple emissions regulations, including Stage V
- Readily adaptable to a variety of applications
- Flex Module system packaging available to fit in challenging space claims seen in many off-highway applications
- UL2 Urea Dosing System designed to achieve optimal levels of NOx reduction
- UL2 Urea Dosing System's freeze robust design offers improved reliability and optimized dosing spray performance, reducing the risk of deposits to significantly improve reliability.

Series 250 Wastegate



Product Features

- Extensive product catalogue for tailored solutions including Pneumatic and Electric Wastegate options
- Compact and modular design
- Optimized bearing design to reduce sensitivity to contamination while maintaining excellent rotor system stability
- Improved oil sealing over the full range of operating conditions.

Customer Benefits

- Improved packaging through compact design
- Improved fuel economy by up to 2%
- Durable and reliable product minimizing down-time
- Optimized product performance and improved transient response.

Technology
that
Transforms