



Performance Data Sheet

FF63009

User-Friendly Fuel Filter

Description

Cummins® FF63009 Fuel Filter's new NanoNet™ high-performance filtration media reduces the number of harmful particles reaching the engine's fuel injectors, resulting in reduction in equipment downtime and lower Total Cost of Ownership (TCO). It has a twice the contaminant holding capacity of conventional filters and was designed to deliver cleaner fuel to the High Pressure Common Rail (HPCR). Its unique design delivers maximum engine life with best-in-class protection and longer filter life, minimizing your operating costs.

Features

NanoNet™ Media – Consistent pore size throughout this unique media retains captured particles during engine vibration better than any competitive product.

Fully Synthetic Media – NanoNet media contains no glass and is not subject to water saturation.

New Stage II User-Friendly Filter with XT Design – This filter features NanoNet for Cummins B/L Series engines and is focused on protection, providing optimal removal for a long fuel system life.

Benefits

- **10X reduction in hard particle penetration** fully protects the fuel injector against progressive damage, leading to longer life
- **2X the contaminant holding capacity** of conventional filters
- **Minimal operating costs** with lower Total Cost of Ownership (TCO)*
- **Exceeds 99.6% filtration efficiency** by trapping any contaminants larger than four microns
- **Maximum engine life** with best-in-class fuel injector protection
- **Maintains advanced performance** throughout the life of the filter and performance doesn't decline with age

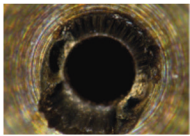
* TCO savings is calculated for maintenance of fuel filter and fuel injection equipment.



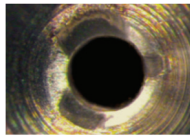
Specifications

Capacity (SAE J905)	55 g (0.21 lb)
Liquid Capacity	0.21 gal (0.8 L)
Rated Flow (SAE J905) Outside In	1.2 gal/min (4.6 L/min)
Gasket Inside Diameter	2.89" (73.5 mm)
Gasket Outside Diameter	3.19" (80.94 mm)
Overall Height	7.17" (182.11 mm)
Largest Outside Diameter	4.01" (101.96 mm)
Multipass Particle Size Specification (ISO 4572)	4 micron
Particle Size at Beta 100 (Multipass)	6 micron (c)

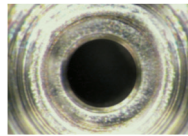
Diesel Metering Valve (DMV) Seat



Field Failure
After teardown observation

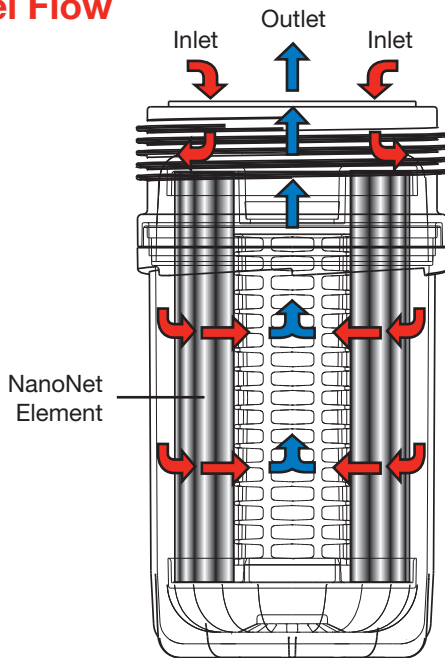


Dust in Fuel
Testing with competitor media (after 50 hours)



Dust in Fuel
Testing with NanoNet media (no failure after 50 hours)

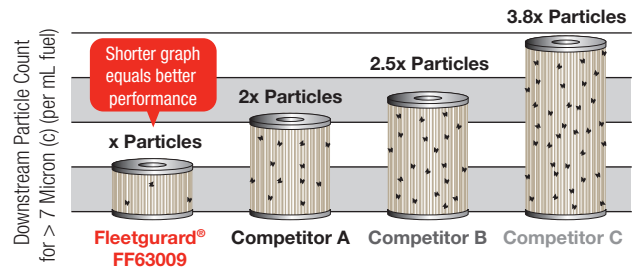
Fuel Flow



For more detailed information, refer to the **Fleetguard Technical Information Catalog – LT32599** or visit **Fleetschool** at cumminsfiltration.com. To find the nearest retailer of Fleetguard products, visit cumminsfiltration.com/wrl.

Performance

Downstream Particle Penetration (Single Pass Efficiency Test Under Vibration)



For more information regarding the above testing, contact your local cummins filtration representative.

Performance by Beta Ratio

Beta Ratio	Efficiency	# Upstream	#Downstream
2	50%	100,000	50,000
4	75%	100,000	25,000
10	90%	100,000	10,000
15	93%	100,000	5,000
40	97.50%	100,000	2,500
60	98.30%	100,000	1,667
75	98.70%	100,000	1,333
100	99.00%	100,000	1,000
125	99.20%	100,000	800
200	99.50%	100,000	500
300	99.60%	100,000	333
500	99.80%	100,000	200
725	99.86%	100,000	138

Current Media Performance (Absolute Value)

FF63009 Performance

Provides **~10x better** protection of the engine fuel system.

Installation Tips

- Installation instructions are provided on the filter.
- Always pre-fill with clean fuel on the “dirty” side of the filter with the pre-fill cap ON.
- Always recycle the used filter, DO NOT reuse.
- After installing a new filter, prime and start the engine and wait for a few minutes, then check for leaks.

Recommended Service Intervals*

- On-Highway: Replace every 15,000 miles
- Off-Highway: Replace every 500 hours



For more information, visit cumminsfiltration.com

PD10018
©2013 Cummins Filtration Inc.
Printed in USA on Recycled Paper