



NanoNet[®] Fuel & Lube Extended Service Filtration Solutions for 2017+ Cummins X15 Engines

50,000 Mile Capable Fuel and Lube Filters

Your Defense Against Dirty Fuel

Global fuel analysis shows that fuel contamination levels have doubled over the past few years. The average gallon (3.8 liters) of fuel can contain over 18 million potentially harmful particles. Bad fuel leads to plugged filters, causing a host of problems for your engine. Real-world testing that simulates engine vibration shows how previously captured particles are released into the downstream fuel supply.

The FF5825NN featuring NanoNet[®] media retains captured particles during engine vibration better than any competitive product. The FF5825NN has a higher dust holding capacity compared to its competitors which leads to greater protection of the fuel injection equipment (FIE).



Fleetguard FF5825NN Delivers:

1. Greater protection against dirty fuel than competitive options by delivering fuel that meets FIE manufacturers suggested cleanliness levels.
2. Proven with over 700,000 miles of real-world field testing.
3. NanoNet media in the FF5825NN for 2010-2015 HD ISX and 2017+ X15 engines not only removes the harmful hard particles but also retains them during vibration better than any competitive product in the market today.

Take Your Truck the Distance

Fleetguard Genuine fuel filters offer sustained performance and longer service intervals for your HPCR fuel system. Fleetguard Genuine Filtration fuel system products are manufactured to meet and exceed OE standards for optimum protection, extended service intervals and reduced operating costs.

| Service Interval | Light > 6.5 mpg | Normal 5.5-6.5 mpg | Severe <5.5 mpg |
|------------------|------------------------|------------------------|------------------------|
| FF5825NN | 50,000 mi 80,000 km | 35,000 mi 56,000 km | 25,000 mi 40,000 km |

Visit: <https://goo.gl/jv34kh> to learn more about FF5825NN fuel filters.

FF5825NN FUEL FILTER: GENUINE PROTECTION.

Lube Filtration On Back!

LF14000NN LUBE FILTER: ENGINEERED FOR EFFICIENCY.



Next Gen LF14000NN Benefits

A state-of-the-art co-bonded lamination process pairs NanoNet and StrataPore® media together to create a combination filter developed for, but not limited to Cummins engines. This media manufacturing technology provides the following advantages for our combination filter:

- Higher particle removal efficiency
- Increased contaminant holding capacity
- Reduced flow restriction, especially under cold-start conditions
- Reduced CO₂ footprint and lower total cost of ownership

Visit: <http://goo.gl/S1ShRQ> to learn more about LF14000NN lube filters.

Higher Performance, Lower Operating Expenses

Our unique position within Cummins provides engine data from fleets all over the world, which we analyze and use to improve filter design. In this study, we used engine duty cycles in the North American on-highway market to calculate dollar savings achieved by fuel economy improvement when using our less restrictive LF14000NN filters. The lower filter restriction not only improves fuel economy, but it also reduces oil flow delays to critical engine components.

| Service Interval | Light > 6.5 mpg | Normal 5.5-6.5 mpg | Severe <5.5 mpg |
|--------------------------|------------------------|------------------------|-------------------------------|
| LF14000NN | 50,000 mi 80,000 km | 35,000 mi 56,000 km | 25,000 mi 40,000 km |
| LF14000NN with OilGuard* | - | - | Up to 80,000 mi 128,747 km |

*Up to 80,000 mi / 128,747 km oil drain interval with participation in Cummins OilGuard oil analysis program.

Estimated Annual Fuel Cost Savings with LF14000NN vs. Competitive Filters

Based on a Fleet Size of 1,000 Trucks Averaging 6.8 mpg

90% Rated Flow, Hot Oil (13 cSt)

8% Idle Flow, Hot Oil (13 cSt)

2% Idle - Rated Flow, Cold-Hot Oil (330 cSt - 13 cSt)



Cummins Developed, Cummins Approved.

- Fleetguard filters are field tested all over the world to meet the toughest industry and internal standards.
- Cummins engines and filters are developed together to ensure maximum compatibility.
- Manufactured since 1958, Fleetguard filters are Cummins owned and Cummins inspired.
- We are Cummins and we know engines!

Visit: <https://goo.gl/mUXwMQ> to learn more about NanoNet media technology!

Best Warranty in the Business.

The Cummins Filtration Warranty extends to our entire line of products, ensuring the same promise of performance and coverage beyond the competition. Visit cumminsfiltration.com to learn more about the competitive benefits of the Cummins Filtration Warranty.



cumminsfiltration.com

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