



# LF14000NN Lube Filter featuring Next Generation NanoNet<sup>®</sup> Media

Compatible with all 2010-2016 ISX15 and 2017+ X15 engines.

## Evolutionary Filtration.

Today's Cummins engines offer higher performance and better fuel economy than ever before. Lubricating oils have also evolved to meet the demands of new emissions and fuel efficiency requirements, as well as the harshest driving and operating conditions engines face. To top things off, lube filters are evolving too!

With industry-exclusive media manufacturing capabilities, Cummins Filtration has developed yet another innovative product solution to best meet the engine requirements for today and the future. The Fleetguard LF14000NN, the American Filtration Society's 2015 Product of the Year, next generation features composite polymeric media with tandem efficiency through pairing of StrataPore<sup>®</sup> and NanoNet<sup>®</sup> media grades.

## Product Features.

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 maximizes the media area within the filter for optimum capacity and service life.

Combination filters provide the following advantages:

- Higher particle removal efficiency
- Increased contaminant holding capacity
- Reduced flow restriction, especially under cold-start conditions



## Benefits.

- Designed for a wide range of fluid viscosities
- Low flow restriction
  - = Energy efficiency
  - = Improved Fuel economy
  - = Reduced CO2 footprint
- Longer filter service intervals
- Lower cost of ownership

Thanks to the latest media manufacturing processes, we are able to laminate our advanced NanoNet and StrataPore polymeric media together to create one filter element.

In doing so, we eliminate the need for separate media sections without losing the combination performance of the different media grades.

This creates a filter that has high particle removal capability for improved engine protection, longer engine life and less downtime.

**StrataPore<sup>®</sup> + NanoNet<sup>®</sup>**  
**= Balanced Design**



**THE ORIGINAL EQUIPMENT MANUFACTURER.**

# GENUINE PERFORMANCE. EVERY™ TIME.

## Engineered for Efficiency

We know every dollar matters, so let us help you lower operating costs. Our unique position within Cummins provides us with 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 which reduces wear during cold start conditions.

## Media Innovators.

Fleetguard products with NanoNet media are more than the next generation of filters:

- They highlight the Cummins Filtration technology journey as we continue to lead the way in media manufacturing and innovation.
- With advanced research and media manufacturing capabilities, Cummins Filtration continues to discover new ways to maximize the potential of nanofiber media in filtration solutions.
- NanoNet filters are produced with continuous, high-strength polymeric fibers, resulting in a product that is extremely resistant to degradation over its service life.

## 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 alongside each other to ensure maximum compatibility.
- Started by Cummins in 1958, Fleetguard filters are Cummins-owned and Cummins inspired.

Don't be fooled by industry followers...Cummins Filtration is the only filter manufacturer that is also part of an engine manufacturer. We know precisely how to provide the very best in engine protection...period.

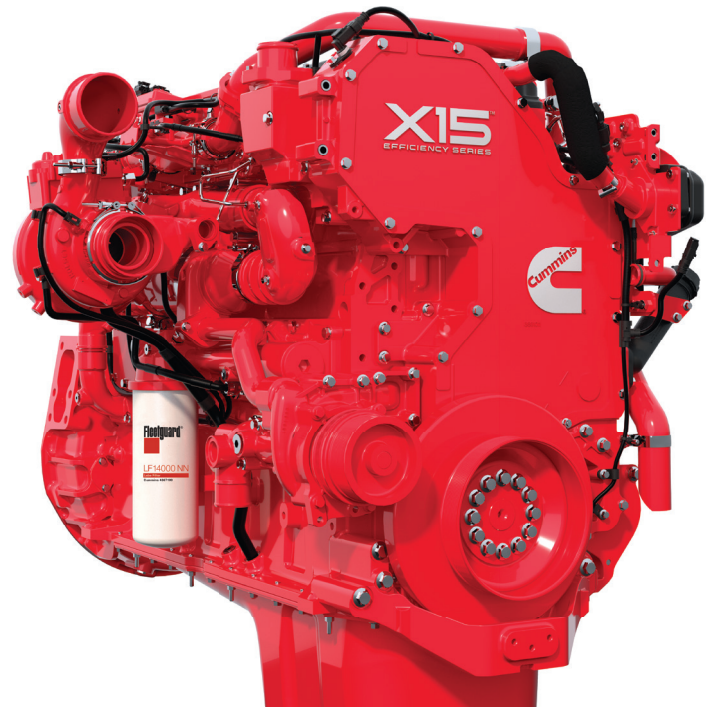
### Estimated Annual Fuel Cost Savings with LF14000NN vs. Competitive Filters

Based on a Fleet Size of 1000 Trucks Averaging 6.8 mph

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)



When you buy a Cummins Filtration product, you are assured superior warranty protection from the point of purchase throughout the recommended life of the product. Unlike industry competitors, our warranty coverage is not pro-rated, which means you are fully protected through the recommended service life of the product. These factors make the Cummins Filtration Warranty one of the best in the industry.



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