

Donaldson Delivers

Fuel Filtration

for Cummins® QSK Engines

Cummins® is a registered trademark of Cummins, Inc.

THE CLEANEST FUEL. PERIOD.



Donaldson.

Donaldson. BLUE®

Treated Baffle

The treated baffle provides a clean, finished surface for superior initial cleanliness and corrosion resistance.

Synteq XP[™] Media Technology

Synthetic Synteq XP media provides better contaminant removal and superior contaminant retention.



Inner Liner

Rugged, spiral wound construction allows efficient fluid flow without compromising collapse strength.

E-coated End Caps

E-coating creates a clean, corrosion-resistant surface with a high strength bond to the filter media.

Single Filter Design

Our single-stage filter design ensures that the engine receives clean fuel.

These filters offer high-efficiency, low flow restriction and excellent dirt-holding capacity – with no complex, back up filter required.

Donaldson Aftermarket Filter Warranty

YOU HAVE A CHOICE

You can always choose top-quality Donaldson filters designed specifically for your engines and equipment and – as long as you change them according to the engine manufacturer's recommendations – using Donaldson filters **will not** void your engine manufacturer's warranty.



A Better Way to Filter Fuel

Better Fuel Filtration is Key for Modern Fuel Systems

Today's diesel engines need to maintain high performance levels to remain compliant with stringent Tier 4 emissions regulations. Fuel filtration plays a key role, with current high pressure common rail fuel injectors operating at pressures up to 30,000 - 45,000 psi (2,000 - 3,100 bar). This means it's important to deliver **CLEAN FUEL** to today's precision designed fuel system pumps and injectors to maintain performance.

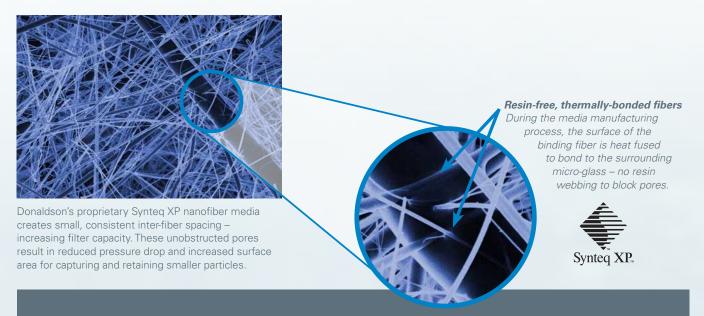
Today's engines also operate in a wide range of environments that include vibration, fuel pump pulsation and surging fuel flows. It all adds up to big challenges for your fuel filters.

Are your fuel filters up to the challenge?

INDUSTRY-SHAPING SYNTEQ XP™ MEDIA TECHNOLOGY

On-engine fuel filters are your last chance to remove contaminant from your fuel system. It's key that your filters remove – *and retain* – as much contaminant as possible in all types of operating conditions.

Donaldson Blue® DBF5782 filters with Synteq XP media technology provide premium protection for your QSK engine fuel systems. They offer better contaminant removal and better contaminant retention under the dynamic operating conditions that your engines and equipment experience every day.



Testing Vibration Effects on Fuel Filters

Donaldson reproduces modern environmental challenges with advanced performance testing. The result is consistent, superior filtration performance under dynamic engine operating conditions. The performance shown graphs are based on SAE J1985 single-pass test standards, with added vibration to simulate engine operating conditions, while monitoring filter performance and particle retention.









Donaldson Blue DBF5782 consistently retains particles under high pressure common rail fuel system dynamics (engine vibration), protecting your hard-working equipment and maximizing your uptime.

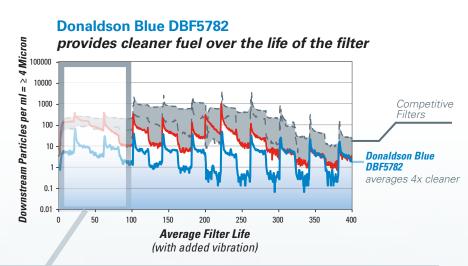
PERFORMANCE UNDER ENGINE VIBRATION AND PARTICLE RETENTION

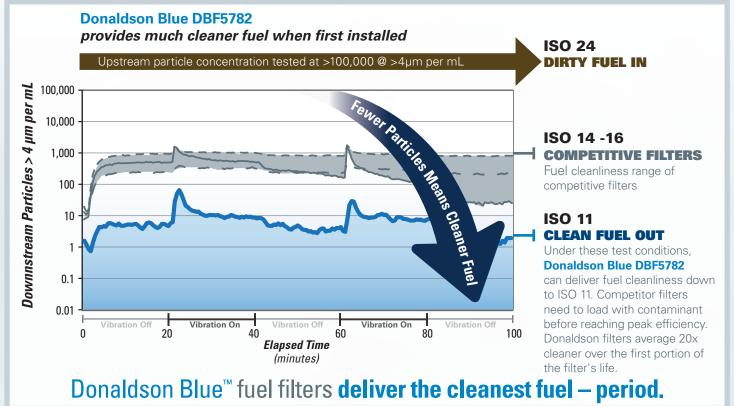
Compared to the competition's best product, the Donaldson Blue DBF5782 averages **4x CLEANER** under heavy-duty vibration testing over the life of the filter. Lower particle release means less micro-contamination is flowing downstream to the fuel injectors.

cleaner fuel THAN THE BEST COMPETITIVE FILTER

Donaldson Blue DBF5782 averages 4x lower particle concentration than the competition's best product.

Particle retention was tested under SAE J1985 single-pass test standards with added vibration and increased particulate concentration. Test conducted March – April 2013 with a sample size of six filters per manufacturer.





Focus on Clean Fuel

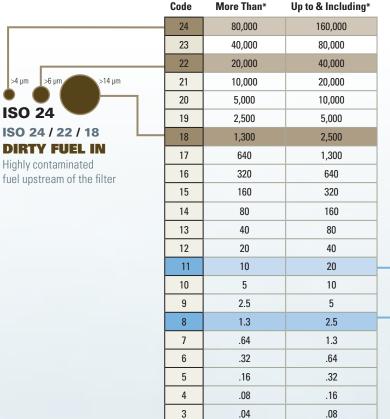
Donaldson Blue® DBF5782 Fuel Filters Deliver Clean Fuel

UNDERSTANDING DIESEL FUEL CLEANLINESS

ISO 4406 contamination codes consist of three numbers corresponding to the number of particles 4 microns (µm) and larger, 6 microns and larger, and 14 microns and larger present in the fuel. Determining fuel cleanliness requirements includes measuring both the particle size and count.

The following chart illustrates what it means to start with heavily contaminated fuel levels of ISO 24/22/18 and how the **Donaldson Blue DBF5782** delivers exceptionally clean fuel. These results are based on SAE J1985 single-pass test standards with added vibration to simulate dynamic engine operating conditions.

ISO 4406 Contamination Codes



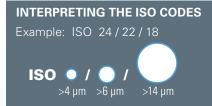
2

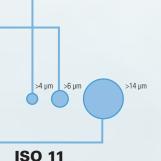
1

*Number of particles per milliliter

.02

.04





ISO 11 / 8 / 2 CLEAN FUEL OUT

Donaldson Blue DBF5782

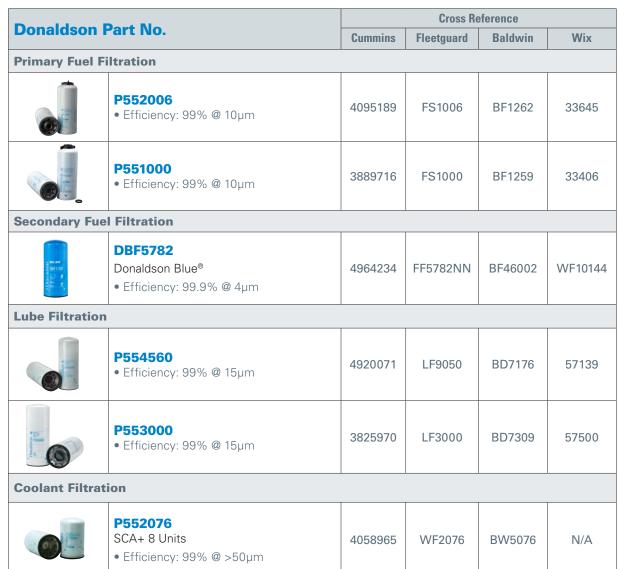
The low particle count downstream of the filter makes the DBF5782 the best in its class.





Donaldson Filtration Products for Cummins QSK Engines





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DISCOVER.

Go online to **donaldson.com** to learn which filter you need.



DECIDE.

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Brochure No. F115369 ENG (9/18)

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100