



FULL RANGE OF HVO FILTERS

Hydrotreated Vegetable Oil

Hydrotreated Vegetable Oil (HVO) is an advanced biofuel derived entirely from recycled waste materials. As an eco-friendly alternative to traditional diesel fuel, HVO represents a significant stride in sustainable energy solutions. It adheres to the stringent standards set by the Fuel Quality Directive (FQD), particularly meeting the requirements outlined in the 2009/30/EC Annex II for diesel fuels.

One of the **key advantages** of HVO is its compatibility with existing diesel engines, especially those used off-road. This 'drop-in' feature means that HVO can be used without any modifications to the engines, providing a seamless transition from conventional diesel. Its composition allows it to blend with diesel in varying proportions without a predefined limit, offering flexibility in its usage.



Moreover, HVO's chemical structure, primarily composed of hydrocarbons, permits its labeling at retail pumps, similar to traditional diesel. This aspect underscores its potential as a mainstream, sustainable fuel option, aligning with global efforts to reduce carbon emissions and promote renewable energy sources.

The FQD allows unrestricted use of non-FAME biofuels in diesel. HVO, a diesel-like biofuel, is explicitly mentioned and complies with FQD specifications, originating fully from renewables.

KEY PROPERTIES OF HVO FUEL



Environmentally safe

- Fossil-free
- Odorless
- 100% biodegradable



HVO has 10-year storage life

compared to diesel <12 m — less prone to diesel bug contamination.



FAME-free,

- No waxing in cold temps,
- No water separation—Better for filters, reduces generator maintenance.



HVO Fuel resists higher colder temps, preventing diesel 'waxing' and filter clogs in generators.



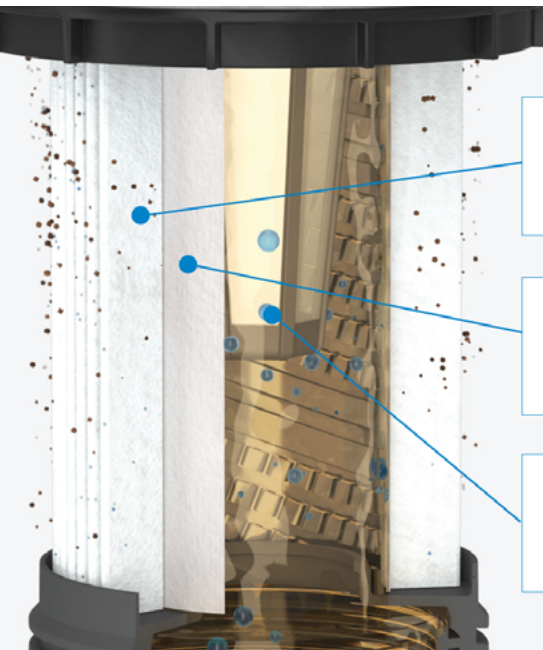
Reduced water retention ensures purer fuel, avoiding water-related damage like cavitation, rust, and corrosion in components.

Fuel Water Separator Technology

Donaldson Synteq™ XP media technology is not just an ordinary fuel water separator: It is specifically engineered to protect the high pressure common rail system from coarse and emulsified water with modern fossil and bio fuels throughout the life of the filter.

This solution employs a multi-stage coalescing structure to achieve high efficiency in fuel water separation.

Benefits of the Primary Filter:



STAGE ONE

LAYERED COALESCING MEDIA

STAGE TWO

COALESCING WRAP

STAGE THREE

HYDROPHOBIC SCREEN

- Donaldson Synteq™ XP coalescing media offers **superior performance** throughout the filter's lifespan.

- Multi-stage coalescing filter design provides **enhanced protection against water intrusion**.

- Outperforms traditional single-stage barrier filters in safeguarding engine components.

- **Ensures optimal engine performance and longevity** by effectively filtering out contaminants.

- **Reduces maintenance frequency and costs** associated with filter replacements.

Coalescing Fuel Water Separator P959163

[Learn More](#)

Test analysis shows that Donaldson Primary Fuel Filters are HVO compatible.
Trust in your Donaldson brand.

Donaldson Blue® Fuel Filters

Better Fuel Filtration is Key for Modern Fuel Systems

Donaldson Blue filters with Synteq XP™ media offer best-in-class contaminant capture and containment. Tests have proven that they deliver fuel that is 4x CLEANER than competitors' best filters. Clean fuel minimizes expensive repairs and unplanned downtime – it's better for high pressure common rail (HPCR) fuel systems, including injectors, pumps, and engines.

START TO FINISH

4x cleaner fuel
THAN THE BEST COMPETITIVE FILTER



Test analysis shows that Donaldson Secondary Fuel Filters are HVO compatible.
Trust in your Donaldson brand.

Engine Manufacturer Overcomes Rising Water Levels in Fuel with Donaldson Coalescing Technology



[Read Case Study](#)

FUEL FILTER, WATER SEPARATOR SPIN-ON DBF9381 [Shop Now](#)



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