



Marine Industry

CONTAMINATION SOLUTIONS

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Marine Industry Contamination

Safeguard your Voyage with Donaldson Hy-Pro

Do you worry about unexpected downtime and costly disruptions at sea as a marine vessel operator? Contaminated oil and fuel are constant threats to marine vessels. Acid, water, and particulate contamination risk exposing your fuel injectors, fuel pumps, and every part of your system to premature wear and catastrophic failure at sea. We understand the need to keep your vessels operating smoothly and efficiently.

For over 35 years, Donaldson Hy-Pro has been helping customers like you achieve optimal performance and peace of mind. We offer industry-leading filtration solutions, ideal for compact size restrictions and designed to conquer the unique challenges of the marine environment.



Help Extend Your Oil Change Intervals

Donaldson Hy-Pro can help protect your total base number (TBN) against harmful acids that form from incomplete fuel combustion, contaminating your oil and leading to more frequent oil change intervals.

Contaminated oil can cause:

- Increased friction and wear between moving parts
- Higher maintenance costs
- Equipment failure and unexpected breakdowns

Clean diesel also plays a critical role in marine vessel reliability. While undergoing daily transfers in marine applications, each step presents fuel contamination opportunities. Without proper filtration, water, particulate matter, and microbial organisms can wreak havoc on your entire fuel system.

Contaminated fuel can cause:

- Alarms and damage from clogged particulate filters and fuel/water separators
- Combustion engine failure and fuel efficiency loss due to water contamination
- Clogged or corroded fuel systems and storage tanks due to slime and sludge

Solutions in Action

Filtration Saves Fishing Vessel from Downtime

Donaldson Hy-Pro provided an effective solution for a fishing vessel facing a challenging situation. The vessel operators discovered approximately 50 liters of water contamination in their 1500-liter hydraulic oil reservoir, potentially leading to critical damage to the PVG valves and hydraulic components.

Following our philosophy of customer service, Donaldson Hy-Pro recommended the V1S, a compact and mobile dehydration and high-efficiency filtration solution designed to combat water contamination in hydraulic systems.

Within 7 days of installation, the V1S successfully removed nearly all water contamination from the hydraulic oil, preventing significant downtime and financial loss from damage to the PVG valves and the cost of replacing the entire 1500 liters of hydraulic oil.

The fishing vessel operators were extremely satisfied with the performance of the V1S and Donaldson Hy-Pro's proactive customer service.

Scan to
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Case Study



Let's Work Together

Our experienced team can analyze your specific needs and recommend the perfect filtration solutions for your vessel. Contact Donaldson Hy-Pro today and let's work together to keep your marine assets running smoothly!



High Performance Filter Elements

Fluid Contamination Under Control with Donaldson Hy-Pro's Total System Cleanliness Approach

Our industry leading DFE filter elements remove more contaminants and last longer, saving you time and money in the long run. We offer a variety of filtration

solutions that can help protect your marine vessel and diesel engine from unplanned downtime and expensive high-pressure fuel injector wear.

Water Removal

G8 Dualglass Media with Water Removal

Media code "A" specifies G8 Dualglass media co-pleated with water removal scrim to produce a filter that can remove water while maintaining $\beta_{x_{10}} \geq 4000$ efficiency down to $3\mu_{10}$. Available for all Spin-On and cartridge style filter elements.



DFE

Dynamic Filter Efficiency

The Dynamic Filter Efficiency Test (DFE) is the evolution of standard hydraulic and lube filter performance testing. DFE goes further than current industry standards to quantify capture and retention efficiency in real time by inducing dynamic duty cycles, measuring real-time performance during dynamic changes and the filters ability to retain particles.



& Fluid Contamination Equipment

LF(M)

High Viscosity Filter Assemblies

Low pressure filter assemblies optimized for high flow hydraulic, high viscosity lube and heavily contaminated fuel applications.

Max Operating Pressure: 150 psi (10 bar)

Available options up to 1000 psi (68.9 bar)



BT Breathers with T.R.A.P.™ Technology

Self-Regenerating Moisture and Particulate Breathers

Protect your uptime, critical hydraulic & lube assets and fluid life. Donaldson Hy-Pro Thermally Reactive Advanced Protection (T.R.A.P) breathers are critical in Donaldson Hy-Pro's Total System Cleanliness approach as a barrier preventing airborne particles and water from entering reservoirs and gearboxes. Unlike traditional dessicant breathers, T.R.A.P breathers can self-regenerate their water-holding capacity, extending the life of the breather and lowering the total cost of ownership.



**THERMALLY REACTIVE
ADVANCED PROTECTION**

hyprofiltration.com

Donaldson
HY-PRO™

Off-line Filter Systems

FSL

High Viscosity Filtration Systems

A dedicated contamination solution for bulk oil handling and fluid transfer. Designed to excel in filtering particulate from heavily contaminated oil, the FSL keeps gearbox lubricant clean and equipment running efficiently.

Ideal for high viscosity gearbox or lube applications and highly contaminated fuel applications.



CFU

Compact Filter Units

The compact filter unit provides you with the best filtration at a size you can take anywhere. Tried and true, the CFU is the ultimate filtration system in power and mobility. Designed specifically for limited space operations, the CFU maximizes power in a minimal package. And with easy to change Spin-On elements or heavy duty MF3s, you can rest easy knowing your filtration will always exceed your expectations.

FSW

Wall Mounted Filtration Systems

A compact, dedicated off-line contamination solution ideal for small reservoirs, gearboxes and diesel engine crankcase conditioning. Element media options for every application including particulate removal, water absorption, varnish and acid removal.

Compact and compatible, the FSW is the perfect off-line filtration system for removing contamination from your systems and making sure they remain in peak operating condition.



V1S

Compact VUD Vacuum Dehydrator

The V1 is a compact and mobile dehydration and high efficiency filtration solution, the V1 prevents acidity and loss of lubrication properties caused by inefficient dehydration and high ingress. It is ideal for rapidly removing all forms of water from hydraulic and lube oils. The V1 is ideal for the marine world and compact size restrictions, utilizing single phase power supplies that provide the same unmatched water and particulate remove as larger VUD, with the added benefit of incredible mobility. The V1 is a workhorse designed for 24/7 unattended operation. With a dual condensate collection tank design, auto water level sensors, and automatic acting drain valves, there is no need to stop and drain water.



CSD

Diesel Coalesce Non-Powered Filtration System

Remove water to extend fuel injector life and increase combustion fuel efficiency. The CSD is designed for direct integration into fuel delivery systems with pump flow and pressure already in place for easy, streamlined water removal through your existing system. Using high efficiency coalesce and separating media, the CSD will keep diesel free from water contamination down to 50 ppm in a single pass.

Ideal for construction fueling depots, tank farms and common fuel rail applications.



FSLCOD

Marine and Industrial Diesel Filtration Systems

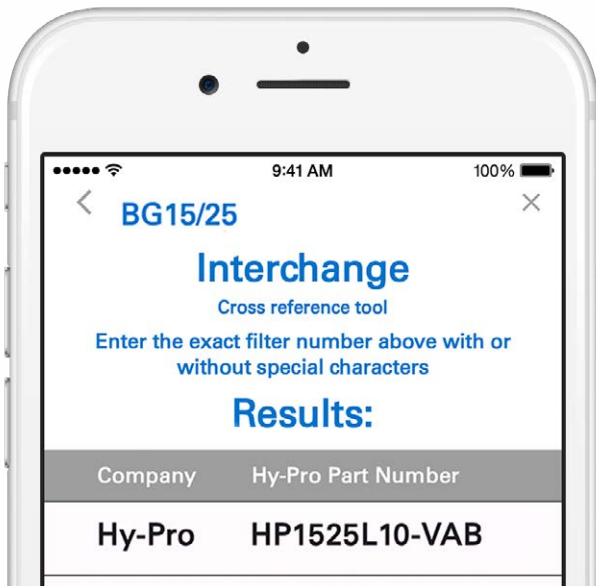
The Donaldson Hy-Pro CODS offer complete diesel conditioning to remove particulate, water, and bacterial contamination from your diesel. CODs utilize high capacity DFE rated filter elements and remove particulate with incredible efficiency upstream of the Coalesce housing, giving you clean, dry fuels and protecting your injectors. The FSLCOD is ideal for permanent installation on board sea vessels and diesel applications requiring compact size restrictions.



Filter Element Interchange

The world's largest online selection of critical filter elements.

With over 500,000 filter element cross references, Donaldson Hy-Pro's Interchange offers an extensive and comprehensive selection of critical hydraulic and lube oil filter elements. Discover all Donaldson Hy-Pro cross references via our app, Donaldson Hy-Pro Solutions and our distributor website.



Download Donaldson Hy-Pro Solutions



Calculate the amount of contamination that passes through your hydraulic components and bearings and access to Donaldson cross reference with our app.

Available on
the App Store & Google Play



Donaldson Hy-Pro Total Solutions

Your Premier Partner for
Comprehensive Industrial Filtration Solutions and Services.

At Donaldson Hy-Pro, we are known for our expertise in industrial hydraulics; Donaldson also offers comprehensive filtration solutions. We can help with all your filter and service needs. If it needs a filter or service, we can help. Reach out today and we will connect you with the team that can help with your filtration needs.



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