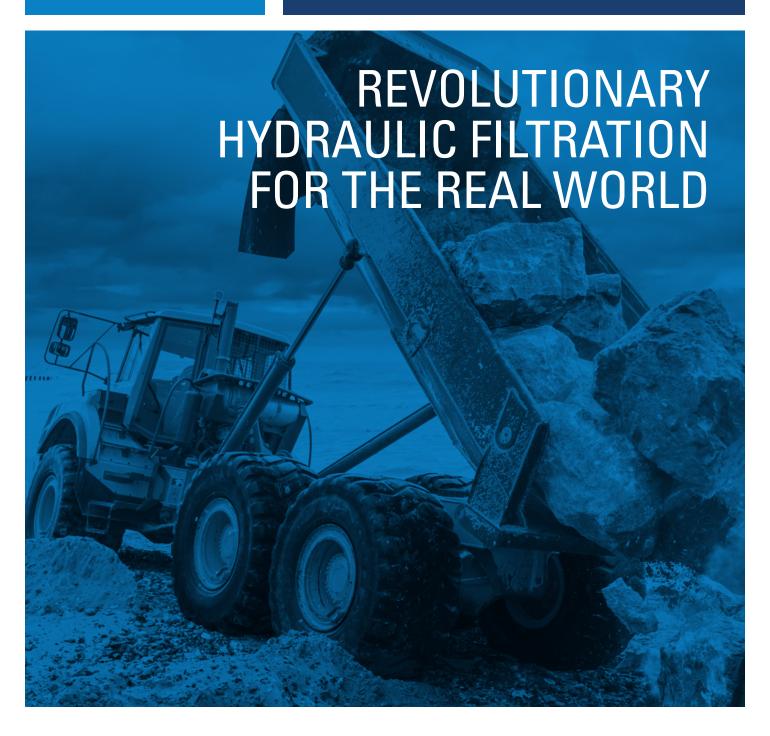


## **Donaldson® Alpha-Web™** Media Technology



Fine fibers for rough work.

Donaldson.

# CLEANER HYDRAULIC FLUID IS THE ANSWER

### 75% of Hydraulic Failures Are Caused by Dirty Fluid

More than 75 percent of all hydraulic system failures can be traced back to contaminated fluid. Today's modern hydraulic systems operate at such high pressures that even microscopic particles can cause wear and tear on components, unplanned downtime and higher maintenance costs.

The cleanliness of your hydraulic fluid directly impacts your bottom line. Clean hydraulic fluid can extend component life, increase uptime and lower the cost of ownership.

To best protect your hydraulic equipment in real-world conditions, you need filtration that's been developed and tested to handle those conditions effectively and efficiently.

**Donaldson® Alpha-Web™ hydraulic filtration technology is that protection.** 

# ALPHA-WEB IMPROVES HYDRAULIC FLUID CLEANLINESS BY

2 ISO codes over synthetic media

That's hydraulic fluid up to **4x cleaner**\*

Which can extend component life by 60%

\*Results achieved from lab testing. Field testing is ongoing.

#### **Efficient Filtration Is Effective Filtration**

Efficient filtration extends the life of your hydraulic fluid, therefore extending its protection of your components.

But how much does filter efficiency matter?

According to the Equipment Life Extension Table by
Noria Corporation, the industry-accepted authority on
fluid cleanliness, an improvement in fluid cleanliness by
two ISO codes can extend component life by 60 percent.
How much would you save annually if you could get 60
percent more life out of your components?

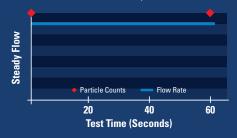
# Alpha-Web: A New Standard in Filtration Media

With the 2021 industry ratification of ISO 23369, lab testing for hydraulic filtration more closely replicates the varying, or "cyclic" flow rates of realworld filter working conditions. This evolution of hydraulic filtration test standards has opened the door for new technology solutions.



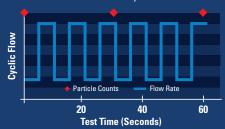
#### Steady Flow ISO 16889

- Constant flow
- Particle counts every minute



#### Cyclic Flow ISO 23369

- Cyclic flow 4:1 ratio every 10 seconds
- Particle counts every 30 seconds



The fine-fiber layer of Alpha-Web media enables high filtration efficiency during cyclic flow conditions, while minimizing dynamic events where particles are dislodged as the fluid flow changes. Alpha-Web is designed for enhanced filtration efficiency that is effective in real-world operating conditions.

#### What is your current ISO code?

Lab testing shows that Alpha-Web improves hydraulic fluid cleanliness by two ISO codes over today's synthetic media. This means that operators get hydraulic fluid that is up to 4 times cleaner and can lead to longer component life. This can lower overall cost of ownership and decrease downtime.

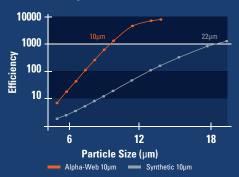
#### Range of number of particles per milliliter

Code	More Than	Up to & Including
24	80,000	160,000
23	40,000	80,000
22	20,000	40,000
21	10,000	20,000
20	5,000	10,000
19	2,500	5,000
18	1,300	2,500
17	640	1,300
16	320	640
15	160	320

Code	More Than	Up to & Including
14	80	160
13	40	80
12	20	40
11	10	20
10	5	10
9	2.5	5
8	1.3	2.5
7	.64	1.3
6	.32	.64

By dropping one ISO code, particle count shrinks by half. Dropping two ISO codes means fluid that is four times cleaner.

# Fine-Fiber vs. Synthetic Media in Cyclic Conditions



Donaldson's 10µm Alpha-Web media delivers better efficiencies in cyclic conditions compared to legacy 10µm synthetic medias.

Alpha-Web offers higher efficiency with a lower restrictive pressure drop.

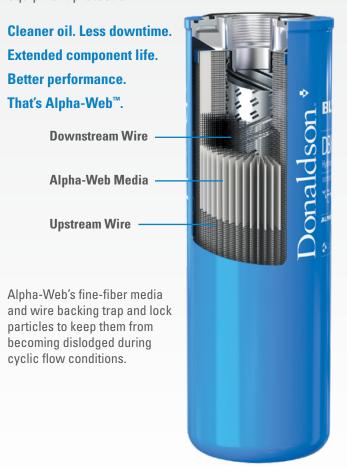
#### **Initial Restriction dP**



Donaldson's 10µm Alpha-Web and 5µm legacy synthetic medias are comparable in efficiency performance. The 10µm Alpha-Web allows for a 20% lower pressure drop than the legacy 5µm synthetic media. In mobile hydraulic applications where high efficiency is required but restriction is a concern, 10µm Alpha-Web provides a significant benefit to legacy 5µm media.

#### **Transformational Protection**

Alpha-Web filtration media from Donaldson features a first-of-its-kind fine-fiber layer to trap and lock particles during frequent flow-rate changes, which delivers transformational improvement in hydraulic equipment protection.



#### **Filter Replacement Cross Reference**

Legacy Part Number	New Part Number
P170949	DBH0949
P163542	DBH3542
P165875	DBH5875



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