

# WHY PRE-FILTER FUELS & LUBRICANTS?

Today's sophisticated equipment, such as diesel engines with tighter tolerances and increased injection pressures, require higher cleanliness levels than ever before.

In short filtering your fluids before they reach your machinery reduces your total cost of ownership, dealerships around the world who implement a "Clean Fluid" programme have reported much lower warranty claims and failure rates.

It is important to remember that even new oil out of the drum may contain contaminants and may not meet the manufacturer's recommendations!

Donaldson bulk filtration systems save on costly component replacement, prevent unplanned downtime and a decrease in fuel efficiency due to injector wear.

## HOW DO I DEFINE CLEAN?

The Industry Standard ISO 4406 cleanliness code uses three numbers that represent the count of contamination particles 4, 6 and 14 micron or larger in a 100ml sample. Most reputable manufacturers of equipment and machinery use this as a guideline, some only use the first two numbers for oils.

CODE	MORE THAN	UP TO & INCLUDING
24	8,000,000	16,000,000
23	4,000,000	8,000,000
22	2,000,000	4,000,000
21	1,000,000	2,000,000
20	500,000	1,000,000
19	250,000	500,000
18	130,000	250,000
17	64,000	130,000
16	32,000	64,000
15	16,000	32,000
14	8,000	16,000
13	4,000	8,000
12	2,000	4,000
11	1,000	2,000
10	500	1,000

## HOW DO I ACHIEVE THESE RESULTS?

By selecting and fitting a filtration system to achieve the desired results on your bulk fluid delivery system you can greatly increase component life and avoid any warranty issues. Different fluids are required to meet different ISO codes and depending on the amount of flow required will depend on the type of system we recommend. Donaldson offer a single pass filter system which will help you reach the desired result directly out of your bulk tank or drum.

Some like to "Kidney Loop" the hydraulic oil in machinery while other service work is being completed. This can, in conjunction with oil sample testing, help to increase the useful life of the oil while helping to get the oil back to the desired ISO code. We have mobile filtration and pump carts available on request.



Does your workshop comply with these ISO cleanliness codes?

Ask our FILTRATION SPECIALISTS to help you find the system to suit your needs ...

North Island - Lance McIsaac 021 190 2965  
South Island - Stuart Taylor 0272 262 949

An example of a mobile filtration solution from Donaldson.

