

# Why Are Cat Filters Better For You?

Only Cat filters are manufactured to the exacting specifications of your Cat machine — that's why only Cat filters can improve your Company's bottom line

- Other brands may fit, but Cat filters protect engine, drive train, hydraulic systems and components better
- Advanced design delivers maximum filtration efficiency and protection for machine, that means more uptime and lower owning and operating costs



## A : No Flexing

- Spiral roving eliminates pleat movement and keeps contaminants from working their way into the clean side of the filter
- Testing shows filters with spiral roving have 45% lower particle counts than others
- Other brands often flex as fluid travels through them, releasing contaminants that can cause wear



## B : No Bunching

- Acrylic beads rigidly maintain pleat spacing and maximize the filter's surface area — capturing and holding contaminants until the required change interval
- Pleat bunching is common in other brands, allowing contaminants to circulate, cause clogging and shorten filter life



## C : No Metal Contamination

- Fiberglass-reinforced nylon center tubes eliminate metal contamination and are 30% stronger than metal tubes, helping prevent collapse during pressure spikes or cold starts
- In other brands, metal center tubes often carry metal contaminants left over from manufacturing, which can cause wear



## D : No Gaps

- Molded end caps completely seal the clean side from the dirty side, eliminating gaps and keeping contaminants where they belong
- Other brands have metal end caps glued on top of filter pleats — creating gaps that allow contaminants to reenter from the clean side



## Better For Your Bottom Line

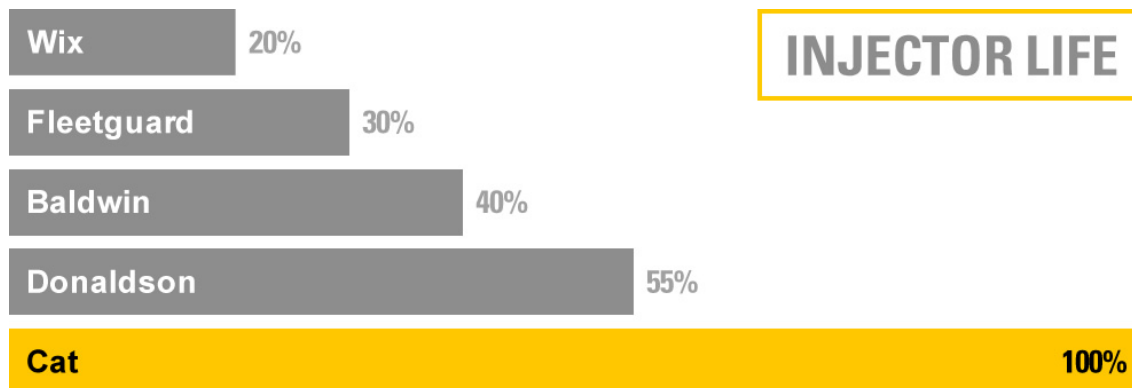
- We don't just test filters the traditional way; we test them the Caterpillar way. These tests revealed that Cat filters:
  - Help Cat fuel injectors last 45% longer than when using a competitive filter
  - Can decrease the cost per hour up to 80%



SAVE UP TO  
**80%** WITH  
CAT FUEL FILTERS

## Better Results

- Five filters were tested and only one — the Cat filter — reached the end of the test before fuel injector failure. In fact, injectors with competitive filters experienced:
  - A leakage rate three times that of new
  - Significant erosion and leak paths
  - High levels of contaminants passing through

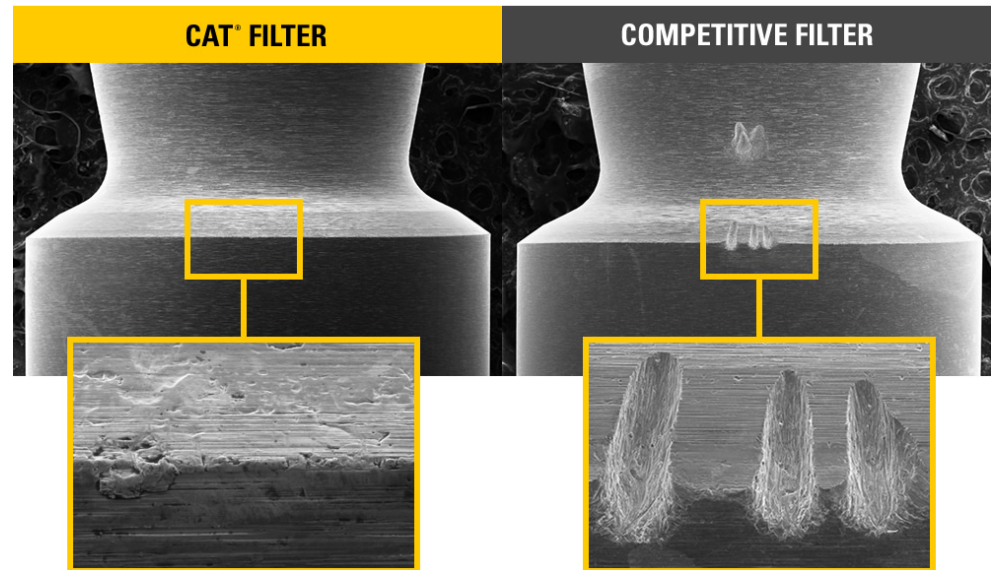




# Better Testing

- Using actual machine components (cylinder head, injectors, pump and other Cat fuel system components)
- Circulating fuel through a C9 engine fuel system test rig
- Running the rig at high idle speeds

## FUEL INJECTOR DAMAGE



# Real-World Testing Results In 41% Increase In Injector Life

## Cat Customer

### **Situation**

- A company operating multiple Cat machines including bulldozers and wheel loaders.

### **Problem/Issue**

- Customer using non Cat filters and had concerns about reduced life on fuel system components.

### **Solution**

- The dealer approached the company and presented the facts and data pertaining to the injector study. The customer wanted to validate the improved component life with an onsite test. Cat helped developed the onsite test comparing a Cat secondary fuel filter to a similar aftermarket filter being used currently by the customer.

### **Results**

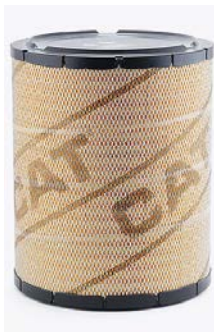
- Following a comprehensive analysis of all the data, there was a 41% increase in injector life using the Cat filter. The competitive filter experienced 2x more performance loss throughout the life of the injector compared to the Cat filter.
- We offer you the right parts and service solutions, when and where you need them. The Cat dealer network of highly trained experts is built to help you maximize your equipment investment.

# Air Filters

Safeguarding your Cat equipment from the dirt and contaminants created by the work environment is critical to component life and operator health and safety. There are three types of Cat Air Filters: Engine Air Filters, Cab Air Filters and Turbine Pre-cleaners.

## Cat Air Filters

- Provide maximum protection of vital engine parts and optimum performance
- Reduce airborne irritants, creating a cleaner, more comfortable operator environment
- Offer increased airflow with less restriction
- Deliver the most advanced filtration available, even with limited space constraints
- Are environmentally friendly and incinerable
- Cat offers multiple filter efficiencies depending on machine and application



# Engine Oil Filters

With more exacting engineering standards, there is less room between engine components than ever before — which is why it's critical to use only Cat Engine Oil Filters in your Cat equipment. Cat Engine Oil Filters come in Standard Efficiency, Advanced Efficiency and Ultra High Efficiency models.

## Cat Engine Oil Filters

- Maximize engine and engine oil cleanliness
- Provide the best machine performance and component protection
- Feature acrylic beads to prevent bunching and spiral roving to increase stability
- Have a nylon center tube to prevent metal contamination
- Include seamless, molded end caps to eliminate leaks
- Cat offers multiple filter efficiencies depending on machine and application



# Hydraulic & Transmission Filters

Because of the differences between the hydraulic and transmission systems on Cat equipment, it's important to always use Cat Hydraulic and Transmission Filters. These Filters come in Standard Efficiency, Advanced Efficiency and Ultra High Efficiency models.

## Cat Hydraulic & Transmission Filters

- Capture particles that would otherwise damage hydraulic and transmission systems
- Minimize cold start by-pass while maintaining appropriate cleanliness levels
- Cat offers multiple filter efficiencies depending on machine and application

