

# TRUE COMPONENT PROTECTION

## Injector Testing Shows Cat® High Efficiency Fuel Filters Provide Superior Protection.

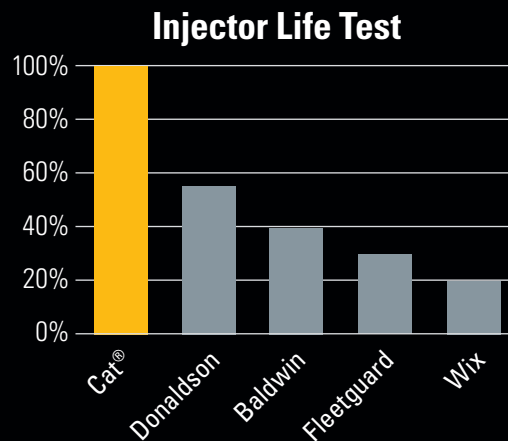
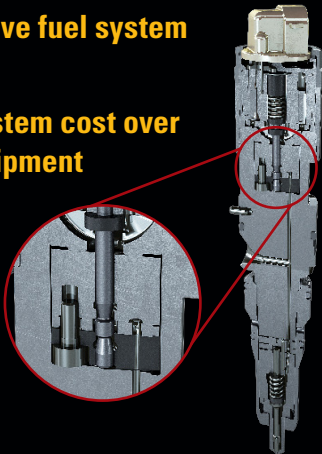
Improved machine performance brings tighter component tolerances, increasing engine temperatures, and higher injector pressures. All these changes demand significantly cleaner fuel be used in your equipment.

### Cat High Efficiency Fuel Filters Offer:

- **The most reliable and effective protection of today's high performance, low emission engines**
- **The cleanest possible fuel delivered to sensitive fuel system components**
- **The lowest fuel system cost over the life of your equipment**

#### Injector Valve Seat

Amount of wear on the valve seat is a clear indication of the level of fuel cleanliness.



Cat Filtration increases injector life **45%**

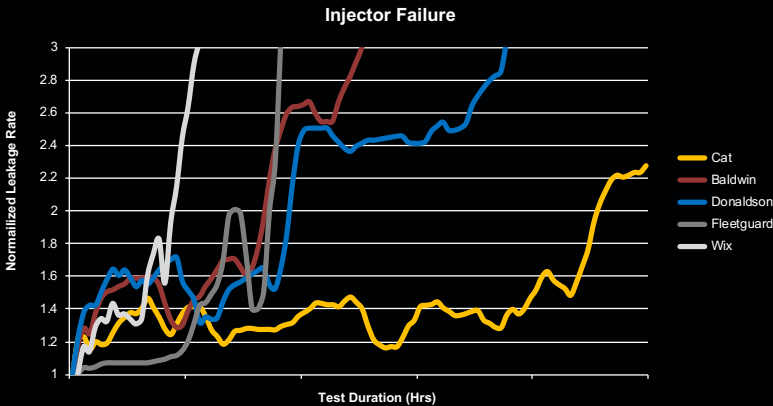
**Cat 1R-0749 Advanced High Efficiency Fuel Filter was pitted against equivalent competitive filter brands to compare injector life.**

Testing conducted utilized a Cat C9 engine fuel system to test injector life. Highly contaminated fuel was circulated through the system at rated and high idle to simulate an extremely harsh operating environment. The test was terminated if the injector exhibited a leakage rate 3X that of new or achieved 50 hours in duration.



# Better Performance Shows...

- Injectors protected with Cat filters exhibited noticeably less wear and fuel leakage when compared to the injectors tested with the competitive filters.
- Injector life was significantly longer for those protected with the Cat filters.



Most customers do not realize the "true cost" of purchasing non Cat filters for their equipment. Rarely will a catastrophic failure be the result of your choice of filtration products. It is only over time, when early hour component failures occur, that the "true cost" is realized.

## How much is your choice in filters costing you?



# LET'S DO THE WORK.™

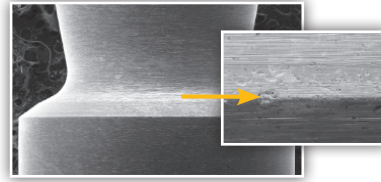
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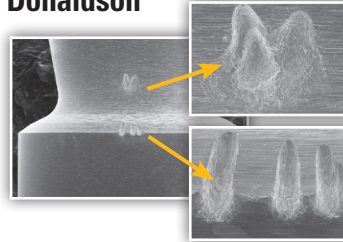
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## Post-test Pictures of Injector Valve Seat

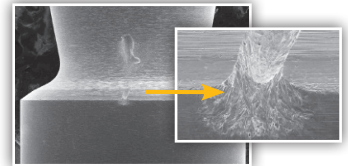
### Cat Filter



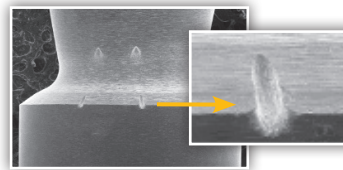
### Donaldson



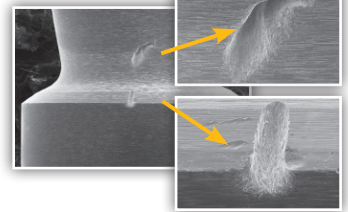
### Wix



### Fleetguard



### Baldwin



Using Cat Fuel Filters resulted in the least amount of wear on the injectors\*. All the competitors had significant leak paths form as a result of erosion due to a high level of contaminants getting through the filter. As a result, engine performance and component life are greatly affected.

\*Pictures represent typical wear of injector valve seat at test termination

## CAT DEALERS DEFINE WORLD-CLASS PRODUCT SUPPORT.

We offer you the right parts and service solutions, when and where you need them. The Cat dealer network of highly trained experts keeps your entire fleet up and running to maximize your equipment investment.

