Cat® UHE Air Filters

Early Filtration Efficiency Provides Longer Engine Life

Cat UHE (Ultra High Efficiency) Air Filters feature a unique surface that extends filter life up to six times that of standard filters and benefits engine life. Caterpillar engineers its UHE Air Filters to provide best protection for your engine components.

- **Less dust ingested = reduced engine wear**—An immediate dust build-up on the filter’s very fine synthetic surface creates a cake layer that reduces the amount of dust reaching the engine. UHE Air Filters are almost at peak efficiency when brand new.

- **Higher efficiency = less restriction**—The surface particle cake is more porous than standard dust-coated media fibers, allowing deeper fibers to filter longer while providing better air flow.

- **Less restriction = better engine performance and fuel economy**—It takes less power to pull in air so the engine “breathes” easier.

- **Longer filter life = reduced contamination**—Higher dust capacity reduces filter changes and the chance of contamination during service for even greater protection.
More efficient early, more efficient overall

So-called “dirty” filters can be more efficient than new ones because dust cake buildup on the surface actually increases filtration. Designed with this concept in mind, UHE Air Filters feature a unique media. This media has a very fine synthetic surface layer that covers the entire outside diameter of the filter. Here’s how it works:

• Fine particles (dust, heavy carbon/coal dust, soot, talc, etc.) immediately cake on the surface, quickly making the filter very efficient. Less dust gets to the engine, improving fuel economy while reducing wear and maintenance costs.

• Surface particle cake is more porous than dust-coated media, causing less restriction during filter life to improve capacity, engine performance, and fuel economy. In tests, air flow restriction through UHE Air Filter media increased at a lower rate than five other major brands.

• Because particles get trapped in the build-up on the surface of UHE Air Filters, the media stays permeable longer—unlike filters with standard media, which become dust-filled deep inside. This extends filter life and filtration efficiency up to six times that of standard media. Extending filter change intervals also means the engine will be exposed to less dust over its life.

Ultra High Efficiency Media

Filters with standard media (right) become dust-filled deep inside the media. Because particles get trapped in the particle build-up on the surface of UHE Filters (left), the media remains permeable longer—extending filter life and efficiency.

Up to six times the life in fine dust or heavy carbon environments

UHE Filters work best in applications where extremely fine dust particles make up a high percentage of contaminants in the atmosphere or in operating conditions with high amounts of exhaust soot, which tends to plug normal filters at low hours.

Avoiding excessive dust on the job site may not be possible. Avoiding damage the dust can cause is possible with Cat UHE Air Filters.

Get 100% of Filter Life

Use the Cat Air Filter Service Indicator to get an accurate, continuous reading of how much life remains in your filter. The easy-to-understand graduated readings let you change the filter only when needed. Over-servicing and under-servicing are eliminated, so you get the lowest possible cost per hour. See your Cat Dealer about retrofits on most Cat machines.

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