

Diesel Particulate Filters for Stationary Standby Cat® Engines



Fewer Emissions, Reduced Backpressure

Cat® Diesel Particulate Filters are available to retrofit existing Cat diesel engines. In addition to particulate matter, these filters also reduce hydrocarbons and carbon monoxide levels.

Because particulate accumulation creates additional backpressure, the Cat Diesel Particulate Filter automatically removes the particulates periodically through a process called passive regeneration.

A diagnostic module monitors backpressure and exhaust temperature, allowing you to check regeneration performance.

- Four configurations for installation
- Stainless or carbon steel
- Sized to engine application
- Alarm notification for high backpressure levels
- Ultra low sulfur fuel required for greater than 85% reduction
- Easy to clean

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The Cat Dealer network of highly trained experts keeps your entire fleet up and running to maximize your equipment investment.

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Significant Emission Reductions

A sequence of alternately-blocked channels in the Cat diesel particulate filter force the exhaust gas to flow through the channel walls, which contain a catalytic coating. A chemical reaction converts carbon monoxide and hydrocarbons into carbon dioxide and water, while at the same time capturing solid particulates.

A properly sized and installed Cat Diesel Particulate Filter results in:

- more than 85% reduction in particulate matter
- more than 90% reduction in carbon monoxide
- more than 90% reduction in hydrocarbons



Options –

You can choose either a muffler diesel particulate filter or manifold diesel particulate filter. A manifold diesel particulate filter still requires a muffler.

Installation –

While horizontal installation is preferred, installation may be vertical if rain protection is provided for the exhaust pipe.

Warranty –

Caterpillar warrants the Diesel Particulate Filter for five years or 4200 hours, whichever comes first.

Removing and Monitoring Particulate Buildup

As particulate matter builds up, back pressure increases. A regeneration process removes the particulates by oxidizing them when exhaust temperatures exceed 300° C (572° F). Low load operation decreases exhaust temperatures, which can cause eventual plugging.

A diagnostic module is required to monitor exhaust temperature, backpressure, time and date. It allows you to monitor regeneration performance over time. The module also contains alarms to warn the operator of potential problems.

Low Sulfur Fuel, High Quality Oil

Fuel – Ultra-low sulfur diesel fuel, not exceeding 15 parts per million, must be used to achieve greater than 85% reduction. Fuels with high sulfur levels increase the self-cleaning temperature.

Oil – Filter durability can be affected by oil quality and consumption. Follow recommended service intervals and use quality oils like Cat DEO™ oils.

This project was undertaken pursuant to an agreement with the United States in connection with settlement of disputed claims in an enforcement action under the Clean Air Act.



For more information,
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