

**RELY ON CATERPILLAR  
FOR AIR QUALITY  
IMPROVEMENTS.**

Caterpillar has the right environmental solutions for your stationary engines. Backed by the reliability and performance of Foley Incorporated, these solutions reduce emissions and are tailored to fit your Cat 3400, 3500 and 3600 diesel and gas stationary engines. Inside, find the right emissions solution for your equipment.

Contact Foley Incorporated at [www.foleyinc.com](http://www.foleyinc.com)

**SOLUTIONS**  
Ensure compliance with EPA standards.



# Cat® Stationary Engine EPA Compliance Guide

## Cat Oxidation Catalysts

for Cat 3400, 3500 and 3600 Series Gas and Diesel Engines



### What it is:

Cat Oxidation Catalysts help lower engine emissions through chemical reactions that convert carbon monoxide, hydrocarbons and aldehydes into carbon dioxide and water.

### How it works:

A catalyst assembly—available in rectangular and cylindrical profiles depending on the engine application—is installed in line with the exhaust system to a stationary engine. Exhaust flows through a stainless housing containing a foil coated with the catalyst, where chemical reactions work to minimize engine emissions.

### What it does:

- Carbon monoxide reduction up to 93% in natural gas engines\*
- Carbon monoxide reduction up to 70% in diesel engines\*
- Hydrocarbon reduction up to 40% in both natural gas and diesel engines\*
- Caterpillar® Warranty of one year from time of sale or 8,000 hours of operation

\*In engines 500hp or higher and running at temperatures between 315°C to 705°C

\*No consumables

## Cat Selective Catalytic Reduction

for Cat 3400, 3500 and 3600 Series Gas and Diesel Engines



### What it is:

Selective Catalytic Reduction effectively removes most nitrogen oxide emissions (NOx) from engines. For Cat 3400, 3500 and 3600 Series stationary gas and diesel engines, Selective Catalytic Reduction is the most durable and reliable process to reduce NOx. This is the only aftertreatment effective for reducing NOx.

### How it works:

The process eliminates more than 90% of NOx emissions by injecting urea, a non-hazardous solution, into the exhaust system. At temperatures above 300°C, urea decomposes to form nitrogen and water, eliminating most exhaust emissions in the process.

### What it does:

- NOx reduction greater than 90% in open loop system
- NOx reduction greater than 95% in closed loop system
- Continuous monitoring of atmospheric conditions and engine parameters
- Caterpillar Warranty of one year or 8,000 hours of operation from time of sale
- Optimum product support and system integration provided by Foley Incorporated
- Stainless steel construction for longer life
- Limited maintenance coincides with regular engine maintenance

## Cat Diesel Particulate Solutions

for Cat 3400, 3500 and 3600 Series Diesel Engines



### What it is:

A Diesel Particulate Filter is a filtration system designed to reduce particulate, carbon monoxide and hydrocarbon emissions. This solution can bring existing Cat 3400, 3500 and 3600 Series diesel engines into regulatory compliance.

### How it works:

A series of alternately blocked channels forces the exhaust gas to flow through the channel walls, where the particulates are physically captured and chemical reactions take place. Carbon monoxide and hydrocarbons are converted into carbon dioxide and water. Backpressure is reduced through a process called passive regeneration that automatically removes excess particulate matter.

### What it does:

- Particulate reduction greater than 85%\*
- Carbon monoxide reduction greater than 90%\*
- Hydrocarbon reduction greater than 90%\*
- Diagnostic module for backpressure and exhaust temperature
- Backpressure less than 18" of water (critical grade silencer)
- Alarm notification for high backpressure levels

\*When properly sized, clean, operating above 300°C and using ultra low sulfur diesel fuel.

Retrofit your stationary engine with a Cat emissions solution and move into full compliance with EPA standards. For more information, contact Foley Incorporated at [www.foleyinc.com](http://www.foleyinc.com).