

US EPA ARCHIVE DOCUMENT

Emissions Upgrade Groups

for Select Off-Highway Engine Applications



Reduced Emissions After Overhaul

Emissions Upgrade Groups help you lower emissions from your existing engines to meet strict state and local emissions requirements. The groups include an upgraded turbocharger, governor & fuel injection pump group, nozzles, cylinder packs, aftercooler (if applicable) and installation parts.

Lower Emissions: Select unregulated 3306 engines can meet Tier 1 equivalent emissions levels when specific emissions upgrade components are properly installed by a Cat® dealer. The 3306 Emissions Upgrade Group is on the US EPA verified technologies list at <http://www.epa.gov/otaq/retrofit/verif-list.htm>.

Verified Diesel Retrofit Technology: Marked with an emissions verification label, your engine will be equipped with an indicator in the field specifying that it can achieve lower emissions levels than the original engine. Validation requires installation by a Cat dealer.

Improved Reliability: Get the same proven components used in later model engines in these Emissions Upgrade Groups. The engine will receive a new arrangement number and information label.

Serviceability: Continue the same maintenance schedules. The engine will receive a new arrangement number and information label.



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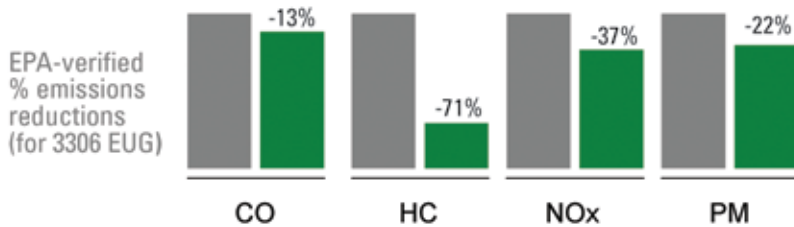
Emissions Upgrade Groups



How it works: Utilizing your current engine block, existing parts are replaced with new components that deliver lower emissions. A range of upgrade options is available.

What it does:

- Upgrade allows existing unregulated engines to meet EPA Tier 1 equivalent emissions levels
- Saves downtime when included in a regularly scheduled engine rebuild
- May reduce overall operating costs by improving efficiency and machine availability
- A more affordable option for emissions reduction



Upgrade Group

Turbocharger

Improved air flow and boost.



Fuel Pump / Governor

Pre-assembled and tested. Increased line pressure. Improved injection timing.



Nozzle

Orifice number and size optimized for improved atomization and combustion.



Cylinder Pack

Optimized compression ratio.



Aftercooler (as required)

Provides a cool, dense air charge to the combustion chamber.

Installation Parts

Additional components and parts needed to install the above components.

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 can help you maximize your equipment investment.



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