

# EMISSIONS REPOWER

## Frequently Asked Questions

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### **What is an Emissions Repower?**

An Emissions Repower is an engine replacement repair option. It is one of the solutions offered by Cat Emissions Solutions to reduce exhaust emissions from existing Cat® machines by replacing a machines current engine system with an updated version that achieves a lower emissions levels.

### **How does it work?**

Repowering an in-use machine with a new engine gives you the benefits of emission reduction technologies not available in the past (by including new fuel injection system, electronic controls, cooling systems, etc.). Where appropriate, repower engines include ACERT Technology. ACERT not only lowers emissions to compliant levels.

### **What are the warranty and ESC (Extended Service Contract) options?**

All engines carry the standard parts warranty and emissions component warranty. The *Cat® Insurance Engine Emissions Retrofit Extended Program* is a program that is available to customers through all U.S. dealers. The Caterpillar dealer must perform the entire emission retrofit.

### **Can I get credit if I install the Caterpillar Emissions Repower?**

Yes, in California, if installation is completed prior to March 1, 2009, the Caterpillar DPF will count for double credit under the early action rules and can extend the life of a machine for 6 years.

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### **Can an Emissions Repower be installed during a CCR (Cat Certified Repower) or CPT (Certified Power Train) procedure?**

Yes, this is an ideal time to retrofit a higher Tier level engine into an existing machine.

### **How many labor hours are required for an Emissions Repower?**

Installation labor hours may vary depending on the machine model, Tier level engine being installed and the dealers' previous experience with the job. Repower segments with parts list and estimated labor hours are being added to the "Standard Jobs Builder File." Also, the Repower Marketing Consultant is available to help with estimates.

### **What Caterpillar Repowers are available?**

The most up-to-date information can be found on the Emissions Solutions website under Machine Emissions Solutions < Repower < Solutions Report. Please contact your Emissions Territory Manager if you have trouble accessing the file. Also, the CES Dealer Application Guide (PEWJ0136) is available for dealer PSSR's.

### **What are the engine "iron" differences between a Tier 1, Tier 2 and Tier 3 repower?**

Tier 1 is the simplest and usually involves just an engine replacement. Tier 2 and 3 repowers are more involved (and more costly) due to the additional need to upgrade cooling packages and the addition of electronics. Some repowers also require drive train and sheet metal modifications.

### **How do I order an Emissions Repower?**

An emissions repower engine arrangement (or NREE engine arrangement) must be ordered as well as the individual parts in the "installation group" parts breakdown.

DPFs can be ordered through Antares. PLEASE NOTE: Before ordering, refer to the DPF Solutions Report to get the complete, CES approved list of the part numbers.

An emission repower kit consists has an emissions repower engine arrangement or (NREE) **New Replacement Engine Exchange** engine arrangement plus individual parts from the "installation group".

These parts are entered through typical Dealer ordering procedures.

### **What is the average lead-time to receive a repower engine?**

The goal is to have engines in stock for a 14-day lead-time. This also depends on engine model. CES recommends that FDO (Feature Data Order) be used when ever possible.

### **What Emissions Repower will be released in the future?**

The Emissions Repower product introduction plan is available on the CES website in the pilot list tab on the solutions report.

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### **What if the machine I need is not listed on the CES website?**

This normally indicates that a Caterpillar engineered solution is not currently available.

To request a machine be added to the list, please submit the Emissions Repower Web Request form for consideration of your request through the Emissions Repower design prioritization plan. The request form is available on the Emissions Solutions homepage under "Reference Information". The Repower engineers prioritize the engine development based on multiple inputs (ie: volume of requests, number of dealers that have requested the model, number of machine in dealer population, etc).

### **Is there financial assistance installing a repower?**

Yes, besides federal and state funding (up to 100%) where available; Caterpillar offers financial assistance. Available through December 2009, the "*0% Financing for Emissions Retrofit Products & Services*". There may be other financial assistance options available through your Caterpillar Dealer.

### **What are the advantages of the Caterpillar Emissions Repower?**

- Caterpillar engineered solution
- Nitrogen Oxide (NOx), Particulate Matter (PM), Carbon Monoxide (CO) and Hydrocarbon (HC) emissions are significantly reduced
- Tier 1 and Tier 2 engines enable Diesel Particulate Filter installations
- Decreases visible smoke
- Caterpillar support