

# Cat<sup>®</sup> Certified Rebuild

## and Cat Certified Power Train



### The two best investments in heavy equipment: Cat<sup>®</sup> machines and Cat Certified Rebuilds.

A Cat<sup>®</sup> machine is the best investment in productivity you can make and there is a way to improve it—a Cat Certified Rebuild. When most competitive models would require replacement, Cat equipment can be rebuilt to deliver a cost-effective “second life.” Cat machines are “built to be rebuilt.”



**CATERPILLAR<sup>®</sup>**

# Cat® Certified Rebuild and Cat Certified Power Train



The extensive Cat Certified Rebuild program incorporates the very latest critical engineering updates into your machine at a fraction of the cost of buying new. After a thorough evaluation, including more than 350 tests, and inspections, and the automatic replacement of approximately 7,000 parts, you get a like-new machine and warranty. As you'd expect, our quality standards are just as stringent the second time around—because only trained dealer service professionals and only Original Equipment Parts are used to complete a Cat Certified Rebuild.





## Caterpillar offers two rebuild programs:

Cat Certified Rebuild, where the entire machine is rebuilt (including the power train) and Cat Certified Power Train, which is a complete rebuild of the power train.

### Before Rebuild



### After Rebuild



**Rebuild the entire machine or just your power train—for maximum life and maximum value.**



## The Process

### 1. Inspection/Evaluation

This vital first step is a thorough process during which we develop a customized rebuild plan and cost estimate. The specific needs of your machine or power train are determined through a comprehensive evaluation, which includes fluid analysis, careful visual inspections, and review of maintenance/S-O-S<sup>SM</sup> analysis services. Cat Certified Rebuild includes more than 350 tests and inspections; Cat Certified Power Train up to 200.

### 2. Disassembly

Once the rebuild plan is established, your machine or power train will be completely disassembled. All hoses, belts, seals, gaskets, bearings, knobs, wiring, switches and gauges will be replaced with new parts. Remaining parts will be inspected and measured against our strict reusability guidelines. Those that do not meet our high standards will either be replaced with new or Cat Reman parts, or reconditioned to meet guideline specifications. Cat Certified Rebuilds include automatic replacement of approximately 7,000 parts; power train rebuilds include approximately 3,000 parts.

### 3. Reconditioning

This phase of the process addresses equipment needs not typically included in an overhaul. For example, frames are examined and, if necessary, they are straightened, welded and reinforced. Worn linkage pins and shaft bearings are replaced. Hydraulic systems are returned to their original levels of performance, reliability and cleanliness, meeting ISO 18/15. Even electronic control modules and software are replaced.

### 4. Engineering Updates

During reassembly, critical improvements that have been made to this machine model since original manufacturing will be incorporated into your machine or power train.

### 5. Power Train Tests

The engine, fuel system, transmission, torque converter, differential, final drives and radiator are also disassembled, inspected, and reconditioned and updated with new or qualified parts. Then, before reinstallation, each component is thoroughly bench tested.

## 6. Reassembly

All critical torques, clearances and pressure settings will be maintained and recorded during careful reassembly of your machine or power train by our professional technicians. Engine wiring harnesses are always replaced, and all other wiring is replaced on full machine rebuilds only.

## 7. Performance Testing

Quality control is integral to both rebuild programs. Therefore, rigorous testing is conducted at several stages. Among the tests routinely performed are: turbocharger boost, throttle response, stall speed rpm, transmission and steering clutch response, and hydraulic and pilot relief valve pressures. Contamination control procedures are followed to assure the unit meets total system cleanliness of ISO 18/15. Instrument and operational testing are also conducted to ensure field performance levels match those in the shop.



## 8. Repainting

Your machine will perform like new—and look like new—after a complete paint job and application of new model identity graphics on a full certified rebuild. Finally, a Cat Certified Rebuild decal will be issued.

## 9. New Serial Number or Product Identification Number

A new serial number or product identification number (Cat Certified Rebuild only) not only identifies your machine, it entitles you to a like-new standard warranty. Because it verifies the exceptional Caterpillar rebuild process, it dramatically increases your resale value.

## 10. Customer Evaluation

The rebuild process is not considered complete until your operators are satisfied with the performance of the machine or power train in its working environment.

### THE PARTS WARRANTY

The Cat Certified Rebuild program doesn't end with the rebuild process. The value of your machine is further increased with parts warranties and extended power train coverage from Caterpillar—supported by the largest dealer and parts distribution network in the world.

#### Cat Certified Rebuild

New-parts warranty on all replaced parts and your choice of Extended Power Train Coverage:

- 2-year or 6,000 service hours
- 3-year or 5,000 service hours or
- 2-year or 10,000 service hours (for mining-machine power trains only)

#### Cat Certified Power Train

Your choice of Extended Power Train Coverage:

- 2-year or 6,000 service hours
- 3-year or 5,000 service hours or
- 2-year or 10,000 service hours (for mining-machine power trains only); coverage varies by country.



# Cat® Certified Rebuild and Cat Certified Power Train



## Cat Certified Rebuild

- Restores machine to like-new performance
- More than 350 tests and inspections, including turbocharger boost, throttle response, stall speed rpm, transmission and steering clutch response, hydraulic and pilot relief valve pressures
- Automatic replacement of approximately 7,000 parts, including hoses, belts, seals, gaskets, bearings, knobs, wiring, switches and gauges
- Examination, straightening, reinforcing and welding of frames
- Replacement of worn linkage pins and shaft bearings
- Reconditioning of hydraulic systems, engine, transmission and torque converter
- Critical engineering improvements and updates
- Repainting of machine
- New identifying graphics
- Similar to standard warranty,\* and extended power train coverage is available
- A Cat Certified Rebuild product identification number is assigned

\* See your Cat Dealer for warranty details



## Cat Certified Power Train

- Restores power train to like-new performance
- Covers radiator, engine, transmission, torque converter, final drive and axle
- Approximately 200 tests and inspections of power train components
- Replacement or reconditioning of approximately 3,000 parts, including power train electrical switches, sensors, sending units, electronic control modules, engine wiring harnesses, bearings, gaskets, seals and coolant hoses
- Critical engineering improvements and updates incorporated
- Extended power train coverage is available

## Cat Certified Rebuild and Certified Power Train program is available for the following machines:



### Track-Type Tractors

D6H, D6M, D6R, D7G, D7H, D7R, D8K, D8L, D8N, D8R, D9H, D9L, D9N, D9R, D10N, D10R, D11N, D11R



### Track-Type Loaders

953, 953B, 953C, 963, 963B, 963C, 973, 973C



### Wheel Loaders

938G, 950B, 950E, 950F, 950G, 962G, 966C, 966D, 966E, 966F, 966G, 970F, 972G, 980C, 980F, 980G, 988B, 988F, 988G, 988H, 990, 992B, 992C, 992D, 992G, 994, 994D



### Compactors and Wheel Tractors

815B, 824C, 825B, 826C, 826G, 834B, 836, 836G, 854G



### Motor Graders

12G, 12H, 14G, 14H, 16G, 16H, 24H, 120G, 140G, 140H



### Wheel Tractors Scrapers

621E, 621F, 627E, 627F, 631D, 631E, 633D, 637D, 637E, 657E



### Off-Highway Trucks and Tractors

768C, 769C, 769D, 771D, 772B, 773B, 773D, 775D, 776, 776B, 777, 777B, 777C, 777D, 785, 785B, 785C, 789B, 789C, 793B, 793C, 797



### Cat Underground

AD55, R1300, R1600, R1700G, R2900, R2900G



### Excavators

345B, 375, 375L



### Pipelayers

589

Call your Cat Dealer for more details on the Cat Certified Power Train program. Models do not cover every product identification number.

# Cat® Certified Rebuild and Cat Certified Power Train



## Maximize the built-in value of your machine or power train.

- Maximum productivity
- Improved reliability and availability
- Cost-effective
- Similar to new-machine warranty and power train coverage
- Greater return on your equipment investment
- Like-new appearance (complete rebuild only)
- Higher resale value

### 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 keeps your entire fleet up and running to maximize your equipment investment.



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