

# What is Remanufacturing?

Remanufacturing is the process of returning an end-of-life, broken or blemished product to "same-as-new" condition in a manufacturing environment.

## Good for Customers

Cat® Remanufactured Parts and Components provide same-as-new performance and reliability at a fraction of the cost of new parts-while reducing the negative impact on the environment. And over-the-counter availability gives you more options at repair and overhaul time. The results are maximum productivity and lower costs.

## Good for Business

The remanufacturing program is based on an exchange system whereby you return a used component (core) in return for our remanufactured products. Reman options are one more way we support your equipment and help you lower owning and operating costs.

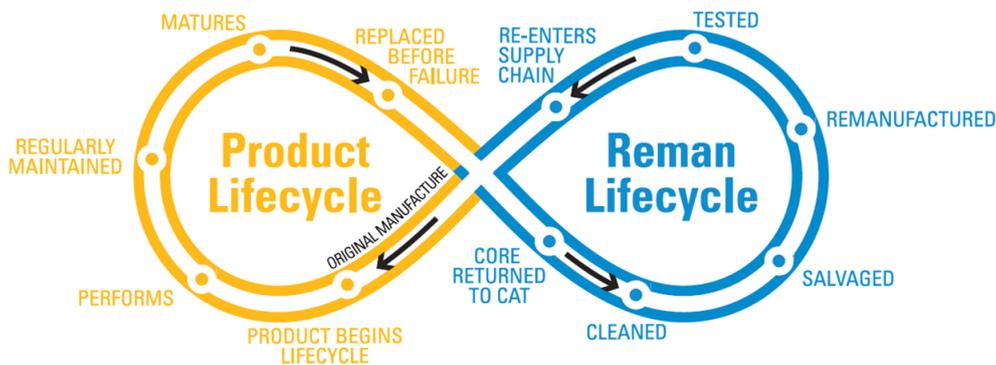
## Good for the Environment

Because we are in the business of returning end-of-life components to same-as-new condition, we reduce waste and minimize the need for raw material to produce new parts. Through remanufacturing, we make one of the greatest contributions to sustainable development—keeping non-renewable resources in circulation for multiple lifetimes.



## Remanufacturing Process Flow

Reman is an exchange business where core deposit are refunded for each core return that fulfils our core acceptance criteria. When the cores are returned to Caterpillar, they are cleaned, salvaged and remanufactured into Reman finished goods.



## Salvage Technology



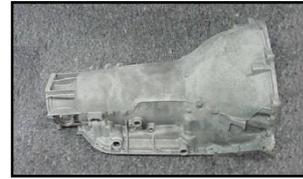
Fluidized Bed

Here are some machines we use to clean all components prior to salvage

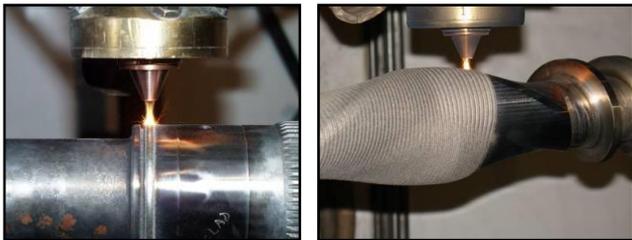
- ✓ Fluidized bed to remove paint, carbon, rubber and plastic off ferrous components
- ✓ Ultrasonic which uses sound waves to clean components
- ✓ Molten salt bath to remove paint, carbon, gaskets off ferrous components



Before



After



Laser Cladding

After components are cleaned, they will undergo inspection to determine the type of salvage required. Cat Reman uses a series of salvage technology from flame spray to PTA welding to laser cladding. Depending on the material deposited, a laser cladded Reman component can be better than new, adding value and longer lifecycle to the component.

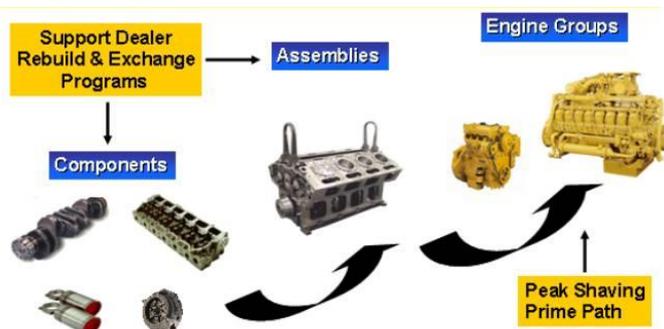
## Reman Value Proposition

- ✓ Credit for your used components\*
- ✓ Lowers overhaul cost
- ✓ Reman parts have Fraction-Of-New Price
- ✓ Genuine Cat parts quality
- ✓ Same-as-new warranty
- ✓ Same-as-new performance
- ✓ Off the shelf availability

\*Contact your dealer for more details

## Reman Product Offering

Cat Reman has a wide range of product offering from component level to sub-assemblies to complete engines. Reman components can be used in repair or rebuild to lower parts cost while sub-assemblies like cylinder pack and short block can help to lower labour hours and cost. Where turnaround time is critical and quality cannot be compromised, we have the full assemblies like engines, final drives, transmissions and torque converters to support the business.



Check out our extensive Reman offerings at <https://parts.cat.com>