



# CAT® REMAN

## REMANUFACTURED REPAIR OPTIONS TO REVITALIZE YOUR EQUIPMENT

INCREASE YOUR UPTIME WITH DURABLE PRODUCTS DESIGNED  
TO PERFORM LIKE NEW FOR A FRACTION-OF-THE-COST.



# GET TO KNOW CAT REMAN

## **COST-EFFECTIVE EFFICIENCY, NO MATTER ITS LIFECYCLE**

Looking for Cat® products designed to work in extreme conditions — parts that offer extensive support and repair options to meet your productivity needs? Consider Cat Reman, our line of remanufactured, genuine Cat parts that offer like new performance for a **fraction-of-new price**.

**But how do they operate like new?** When viable parts or components have reached the end of one life, they may be returned to an authorized Cat dealer. It's here that Caterpillar determines whether these used parts (also referred to as core) are ready to be reclaimed.

Using the product's original OEM specifications and incorporating the latest engineering upgrades, these parts are remanufactured to receive an additional lifecycle. This is completed through our state-of-the-art salvage processes and advanced manufacturing systems, all while adhering to strict reuse guidelines and stringent quality control.

## **COVERAGE WHERE IT COUNTS**

Cat Reman parts are available for use across most industries served by Caterpillar. The many Cat Reman offerings include complete engines, engine subcomponents and Diesel Exhaust Filters (DEF) filters as well as drivetrain, hydraulic components, undercarriage solutions and many electronic components.

Each product is made to last — dedicated to your equipment needs and backed by a 12-Month Caterpillar Warranty<sup>1</sup>.



# WHAT CAT REMAN IS AND WHAT IT IS NOT

They're not rebuilt parts. They're restored components that reclaim the potential of your entire machine.

CAT REMAN IS ALWAYS	CAT REMAN IS NOT ALWAYS
Engineered in a consistent process with sustainable benefits, within a manufacturing environment designed to match the OEM specifications and manufacture of new products.	A repair — which is often a simple or targeted fix designed to keep equipment running for the near term.
Upgraded to include the latest engineering updates.	
Made using components from original equipment which have been remanufactured to like new quality by Caterpillar.	A rebuild — which may require a longer turnaround time and, when completed by a third party, may use will-fit parts without the benefit of Caterpillar reuse guidelines and salvage specifications.
Restored using proprietary Caterpillar processes with genuine Cat parts.	
Covered by a same-as-new, 12-month Caterpillar Warranty <sup>1</sup> .	A retrofit — in which new parts are designed to fit into older machine models to address productivity or maintenance issues.
Remanufactured through a core exchange process which pulls from a supply chain devoted to Caterpillar customers.	



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ONE OF THE THINGS THAT CAT REMAN OFFERS TO OUR CUSTOMERS THAT **NOBODY ELSE CAN** IS THAT LINKAGE BACK TO OUR NEW COMPONENT SIDE OF THE BUSINESS.

WE ARE A COMPANY THAT CONTINUOUSLY IMPROVES AND **INNOVATES ON BEHALF OF OUR CUSTOMERS** TO MAINTAIN OUR COMPETITIVE ADVANTAGE.

**DANNY SIMON, CAT REMAN PRODUCT MANAGER**

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## SOMETHING FOR **EVERYONE**

THROUGH ITS AVAILABILITY AND POSITIVE PERFORMANCE-TO-COST RATIO, CAT REMAN **PROVIDES SUSTAINABILITY BENEFITS** FOR CUSTOMERS.

With a convenient exchange model that offers customers credit for used core, Cat Reman **reduces demand** on the supply chain for business.

By keeping these cores in use among the customer base, the Cat Reman process limits the amount of iron sent to landfills and diminishes greenhouse gas emissions **for the environment**.



### **AVAILABLE WHEN YOU NEED IT**



Thanks to our comprehensive global supply chain and dealer network, Cat Reman solutions are highly accessible.

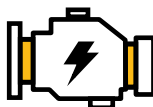
The Cat dealer network stocks a broad line of Cat Reman parts and components. With 21 Global Caterpillar Parts Distribution centers and **more than 2,300 authorized** Cat locations, most components are available and ready to install, reducing your downtime and maintaining productivity



### **AT A FRACTION-OF-NEW COST**

Generally priced at up to **60 percent off the cost of new parts**, Cat Reman repair options help lower the owning and operating cost of your equipment. While the remanufacturing process mirrors the manufacture of new parts, the remanufactured materials save Caterpillar on production costs and, by extension, lower the price paid by the customer.

Whether your concerns center around affordability, reliability or timing, Cat Reman offers solutions for replacement engines, overhaul kits and components for the following industries:



## ENERGY & TRANSPORTATION

- + Electric Power
- + Industrial
- + Marine
- + Oil & Gas

- + Agriculture
- + Demolition & Scrap
- + Forestry
- + Government
- + Pipeline
- + Railway Power
- + Other OEM machines that utilize Caterpillar-engineered products

CAT® REMAN PRODUCT LINES			
ENGINE		DRIVETRAIN	UNDERCARRIAGE
<ul style="list-style-type: none"><li>+Complete engines</li><li>+Long blocks</li><li>+Short blocks</li></ul> <b>Engine Components</b> <ul style="list-style-type: none"><li>+ AC compressors</li><li>+ Air compressors</li><li>+ Air dryers</li><li>+ Air starters</li><li>+ Camshafts</li><li>+ Clean Emissions Modules (CEMS)</li><li>+ Crankshafts</li><li>+ Cylinder heads</li><li>+ Cylinder packs</li><li>+ Dampers</li><li>+ Diesel particulate filters</li><li>+ Electronic controls</li><li>+ Emissions exchange</li><li>+ Exhaust gas bypass valves</li><li>+ Fan clutches</li><li>+ Fuel nozzles &amp; injectors</li><li>+ Fuel pumps &amp; governors</li></ul>	<ul style="list-style-type: none"><li>+ Oil coolers</li><li>+ Oil pumps</li><li>+ Engine overhaul kit</li><li>+ Rocker arms/lifters</li><li>+ Turbochargers/cartridges</li><li>+ Starters/alternators</li><li>+ Water pumps</li><li>+ 3600 pre-chambers</li><li>+ Pre-lube pumps</li></ul>	<ul style="list-style-type: none"><li>+ Transmissions</li><li>+ Torque converters</li></ul> <b>Final drives/Wheel groups and components</b> <ul style="list-style-type: none"><li>+ Front &amp; rear spindles</li><li>+ Inboard &amp; outboard carriers</li><li>+ Rear wheel assemblies</li><li>+ Front &amp; rear brake anchors</li><li>+ Reaction hubs</li><li>+ Brake groups</li><li>+ Differentials (Articulated Truck, D11T)</li><li>+ Tracked Type Tractor (TTT) steering clutch and brake groups</li><li>+ Hydraulic Mining Shovels (HMS) swing, pump and final drives</li><li>+ Electric Rope Shovels (ERS) swing, hoist, propel and crowd drives</li><li>+ Driveshafts</li></ul>	<b>D6 – D11</b> <ul style="list-style-type: none"><li>+ Equalizer bars</li><li>+ Pivot shafts</li></ul> <b>ERS &amp; HMS</b> <ul style="list-style-type: none"><li>+ Idlers</li><li>+ Rollers</li><li>+ Carrier &amp; Track Rollers</li></ul>
ELECTRONICS		HYDRAULICS	
<ul style="list-style-type: none"><li>+ Alternators</li><li>+ Displays</li><li>+ Electronic control units (ECUs)</li><li>+ Engine control modules (ECMs)</li><li>+ Instrument clusters</li><li>+ Inverters</li><li>+ Joysticks</li><li>+ Product Link</li><li>+ Sensors</li><li>+ Starters</li><li>+ Cat Vision Systems</li></ul>	<b>Electric Motors</b> <ul style="list-style-type: none"><li>+ 794/795/796/798 — wheel motors &amp; generators</li><li>+ D6 XE &amp; 988K XE generator &amp; Propulsion Module Stators</li><li>+ Electric Rope Shovel hoist, propel, swing, crowd and Hydra-crowd motors</li><li>+ Generator ends to support requirements for Electric Power, Oil &amp; Gas and Industrial</li></ul>	<b>Pumps &amp; Motors</b> <ul style="list-style-type: none"><li>+ Gear pumps</li><li>+ Piston pumps/motors</li><li>+ Vane cartridges</li></ul> <b>Rods &amp; Cylinder Groups</b> <ul style="list-style-type: none"><li>+ Rods</li><li>+ Cylinder groups</li><li>+ Off-highway truck front &amp; rear struts</li><li>+ Off-highway truck front &amp; rear suspension groups</li></ul>	<b>Valves</b> <ul style="list-style-type: none"><li>+ Implement valves</li><li>+ Lockup &amp; relief</li><li>+ Quick drop</li><li>+ Diverter</li><li>+ Pressure regulator</li></ul> <b>Accumulators</b> <ul style="list-style-type: none"><li>+ Piston accumulators</li></ul>

# CUTTING TO THE CORE OF CAT REMAN

CATERPILLAR'S REMANUFACTURED PRODUCTS PROGRAM RUNS ON AN EXCHANGE BASIS. WHEN A COMPONENT REACHES THE **END OF ITS LIFECYCLE** AND A CAT REMAN PRODUCT IS PURCHASED, THE CAT CUSTOMER MAY RETURN THEIR CORE TO THEIR DEALER IN EXCHANGE FOR A CORE REFUND.

THIS INCENTIVE HELPS ENSURE **NO VIABLE CORE GOES TO WASTE** AND OUR SUPPLY CHAIN REMAINS STOCKED WITH PRODUCTS TO MEET CUSTOMER NEEDS.

**The viability of a core and the amount of credit provided to the customer is determined by our inspection team. In most cases, we accept cores<sup>2</sup> that:**

- + Are fully assembled and complete
- + Are not visibly cracked, broken or welded
- + Display no non-operational damage, like mishandling, excessive rust, corrosion or pitting
- + Have an acceptable Cat part number

Through an on-the-spot core inspection by the dealer, customers quickly learn the total anticipated exchange price. This increases transparency and convenience while reducing any cost-related surprises.

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## HOW IT ALL COMES TOGETHER

Once a core passes dealer inspection, it's sent to one of our global core processing facilities where it is inspected and forwarded to a state-of-the-art remanufacturing facility.

After the core arrives there, it is disassembled, cleaned and salvaged with advanced techniques — like machining, laser cladding and metal deposition — to give the part a new identity and ensure like new quality.

Next, the core is reassembled and tested. Once its functionality is validated, the core re-enters the supply chain as a Cat Reman product.

**With quality prioritized at all levels of the remanufacturing process, Caterpillar stands behind the value of Cat Reman by offering a same-as-new warranty<sup>1</sup>.**



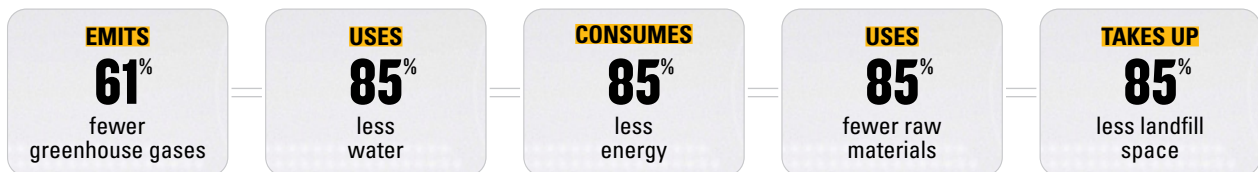
# REVIVE YOUR EQUIPMENT, REPLENISH THE SUPPLY

## SUSTAINABLE BENEFITS FOR VALUABLE PRODUCTS

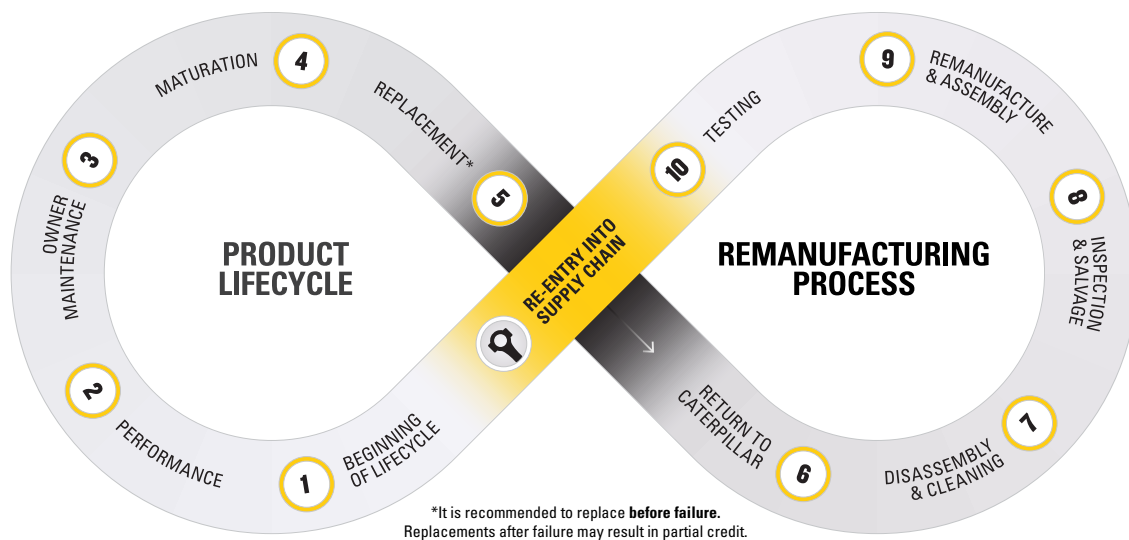
In the unending flow of materials, energy and water, Cat Reman is an important part of our circular economy.

Our customers' returned cores keep the supply chain stocked with reclaimed parts and keep old parts out of landfills, limiting waste in a way that's valuable for both the future of Caterpillar and the world at large.

When compared to the manufacture of new components, the Cat Reman process<sup>3</sup>:



## CAT® REMAN PRODUCT LIFECYCLE



**IN 2021 ALONE, THE CAT REMAN PROCESS COLLECTED 127 MILLION POUNDS OF USED EQUIPMENT PARTS THROUGH END-OF-LIFE RETURNS.**

**— CATERPILLAR 2021 SUSTAINABILITY REPORT**



# REMANUFACTURED TO LAST. BACKED BY A CATERPILLAR WARRANTY<sup>1</sup>.

THE **LIKE NEW** FEATURES OF CAT REMAN PRODUCTS EXTEND TO THE COVERAGE PROVIDED BY CATERPILLAR. ALL CAT REMAN PARTS RECEIVE THE SAME PROTECTION AS NEW COMPONENTS WITH OUR **12-MONTH WARRANTY**<sup>1</sup>. THIS COVERS MATERIAL DEFECTS, WORKMANSHIP AND RESULTANT DAMAGE<sup>1</sup>.

For any questions regarding Cat Reman products and warranties, contact your local authorized Cat dealer.

We have a wide range of remanufactured solutions which can be customized to your business, and we look forward to finding the right components for you.

**Additional information, resources and support can be found at [www.cat.com/reman](http://www.cat.com/reman)**

<sup>1</sup>Warranty can vary by model and application; limitations may apply. For complete details about the applicable Caterpillar Limited Warranty, contact an authorized Cat dealer.

<sup>2</sup>Core Acceptance Criteria (CAC) vary by component and are subject to change. Partial core refunds are available for some Cat Reman components. Contact your authorized Cat dealer for more information.

<sup>3</sup>Represents environmental impacts from remanufacturing process for a Cat Reman engine and components as compared to manufacturing a new, comparable engine and components. Does not include impacts elsewhere in our value chain. Based on a 2006 study done by Caterpillar on a 3412 cylinder head.



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