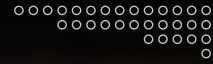
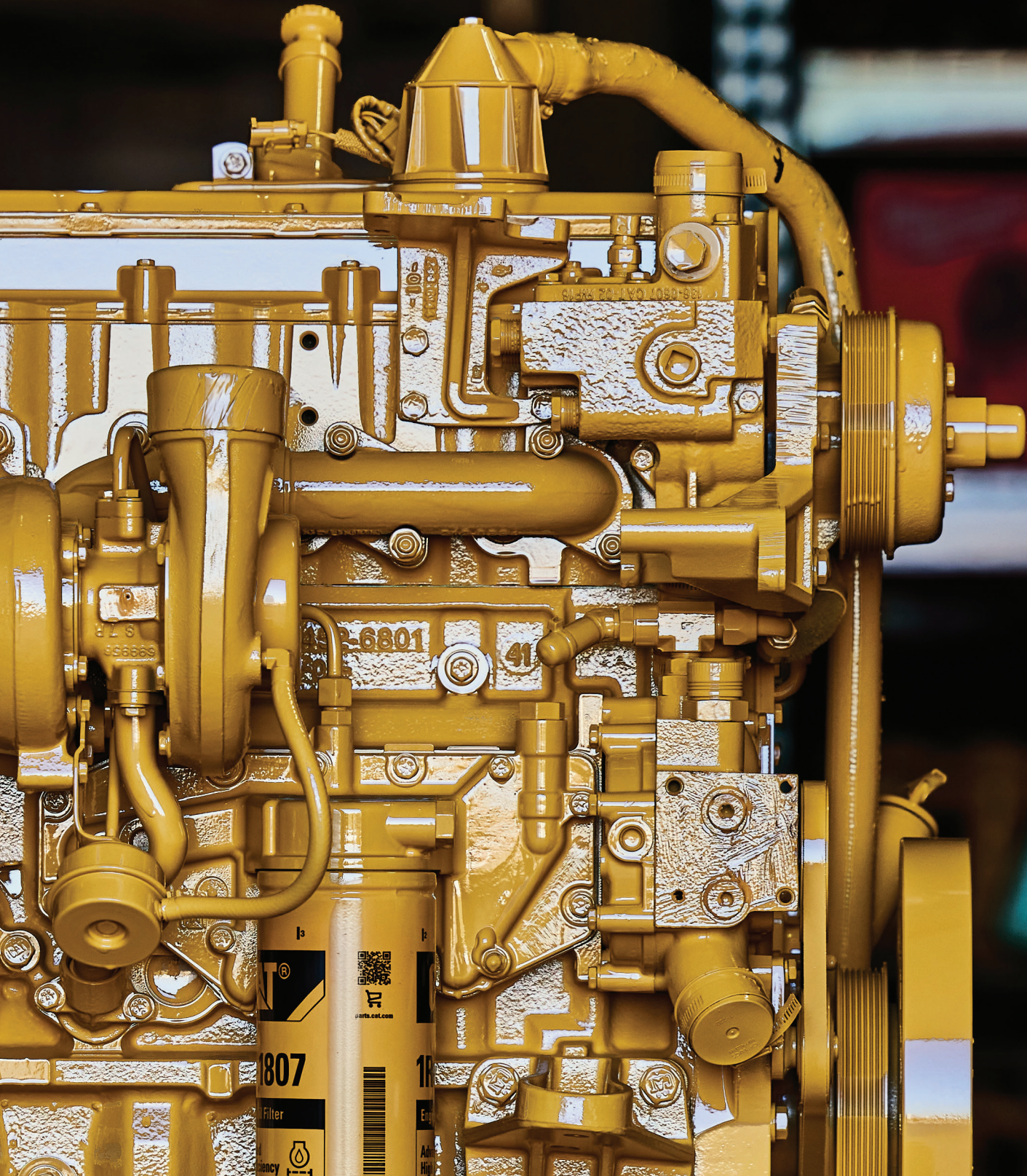


CAT[®] REMAN

ENGINES AND ENGINE COMPONENTS

SAVE TIME AND MONEY WITH
RELIABLE DROP-IN SOLUTIONS



REMANUFACTURED ENGINES AND ENGINE COMPONENTS

LIKE NEW EFFICIENCY FOR A FRACTION OF THE PRICE

Your engine is the heart of your equipment. Keep it running strong — and reduce your costs and downtime — with Cat® Reman repair options. They're expertly salvaged, carefully validated and engineered with the latest design elements and upgrades. The result: like new performance at a fraction of the cost.

Choose from 8,000+ Cat Reman replacement parts and components, available off the shelf at more than 2,300 authorized Cat locations around the globe. That includes complete engines, long and short blocks and more than two dozen different engine components.

Like all Cat Reman products, our engines and engine components come with a Caterpillar Limited Warranty¹. It covers Caterpillar defects in material and/or workmanship as well as resultant damage¹ to provide long-term protection and confidence as you work.

IT'S MORE THAN A REBUILD. IT'S CAT REMAN.

EXPERIENCE LIKE NEW PERFORMANCE

Standard repairs and rebuilds have their place. But when you need an affordable, wholesale replacement, Cat Reman products offer an alternative. We use state-of-the-art salvage techniques, strict reuse guidelines, advanced manufacturing systems and stringent inspections to return used engines and components to their original performance specifications.



ONE OF THE **KEY ADVANTAGES** OF A CAT REMAN COMPONENT OR COMPLETE ENGINE IS THAT YOU'RE GETTING IT FROM THE SAME PEOPLE WHO DESIGNED AND **MANUFACTURED THAT PRODUCT IN THE FIRST PLACE**. WE HAVE ACCESS TO ALL THE DESIGN SPECIFICATIONS AND MANUFACTURING PROCESSES AS THE ORIGINAL PRODUCT.

**JEFF GUTZWILLER, CAT REMAN PRODUCT MANAGER,
ENGINES & ENGINE COMPONENTS**

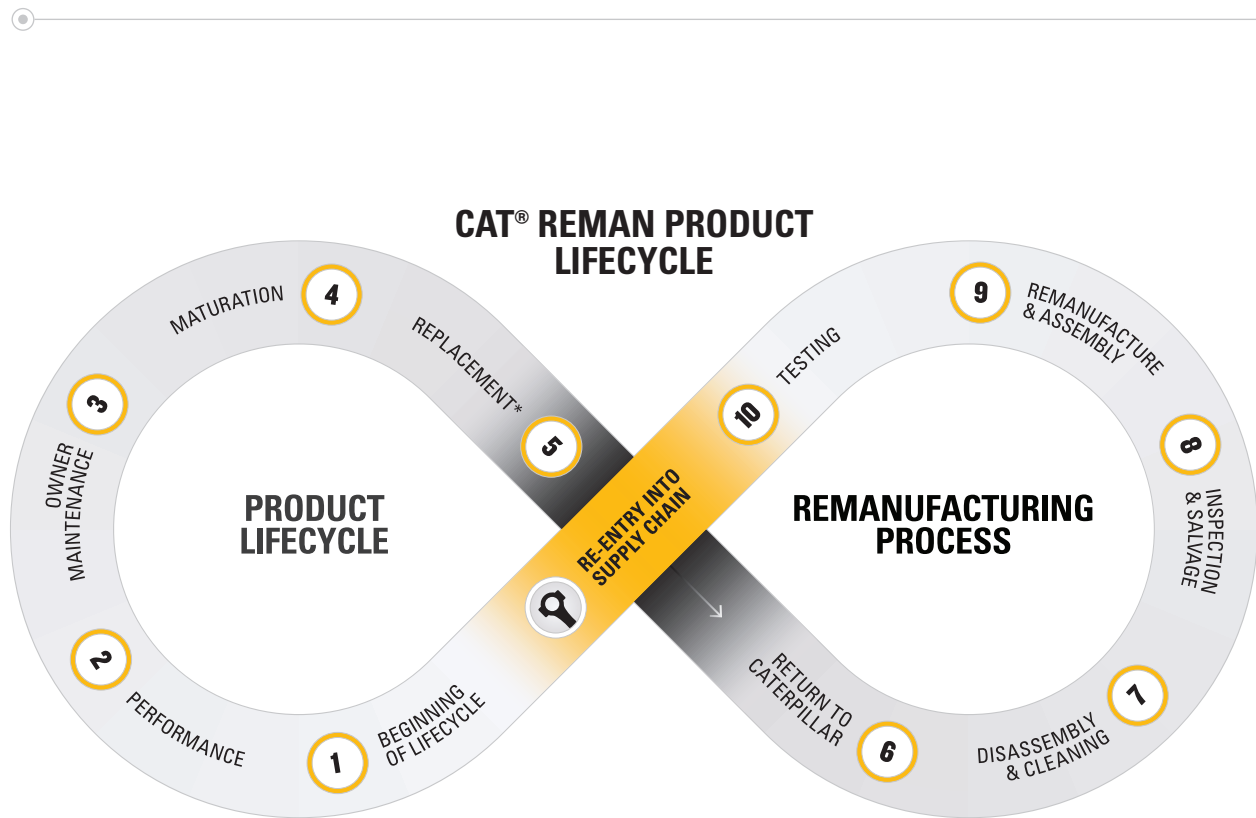


REVIVE YOUR EQUIPMENT, REPLENISH THE SUPPLY

VALUABLE PRODUCTS. SUSTAINABLE BENEFITS².

At Caterpillar, we're dedicated to protecting not just your equipment but also the valuable resources that make its production possible. We contribute to the circular economy through our remanufactured offerings.

A steady flow of used, viable cores moves from customers like you to authorized Cat dealers to our remanufacturing facilities — where they exit as like new Cat Reman products. Compared to manufacturing new components, the Cat Reman process uses **65-87% less process energy, 80-90% less new material and 65-87% less greenhouse gas (CO2) process emissions².**



*It is recommended to replace before failure. Replacements after failure may result in partial credit.



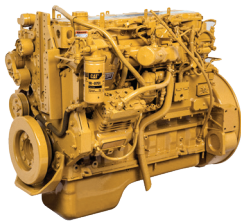


COMPREHENSIVE COVERAGE

FROM INDIVIDUAL COMPONENTS TO COMPLETE ENGINES

When your engine isn't working, neither are you. Get back in operation fast with Cat Reman. We stock everything from simple components to engine overhaul kits to complete engines. Every Cat Reman part at your dealer is ready to install, so you can reduce downtime and maintain productivity.

Reach out to your local authorized Cat dealer to confirm which parts may be applicable to your needs. Also, explore the Cat Reman product line on Parts.Cat.Com to see the wide array of offerings available across all the industries we serve.



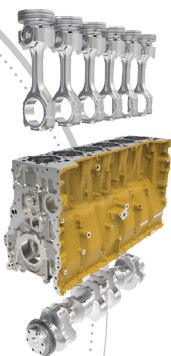
COMPLETE ENGINES

Cat Reman engines are dynamometer tested and tuned for like new performance and fuel efficiency. Fully assembled and ready to run, they're a cost-effective replacement solution that helps increase your uptime.



LONG BLOCKS

Cat Reman long blocks include short block components plus a cylinder head, camshaft and timing gears*. They're fully assembled and ready to be built into your engine — reducing downtime and labor costs with more Cat Reman factory-built content.



SHORT BLOCKS

Cat Reman short blocks are fully assembled with a cylinder block, crankshaft, pistons and connecting rods. They're a good choice when you have crankshaft or cylinder pack issues, but your cylinder head and geartrain are in good, reusable condition.

*Depending on model, Cat Reman long blocks may also include an oil cooler, oil pump, water pump and other components.



OUR CUSTOMERS USE OUR PRODUCT TO MAKE MONEY AND RUN THEIR BUSINESS. **THEY NEED UPTIME, AND THEY NEED RELIABILITY AND DURABILITY.** WHEN THEY COME TO US FOR A CAT REMAN PRODUCT, THEY CAN GET IT AT A COMPONENT LEVEL TO DO A SIMPLE REPAIR, OR THEY CAN SAVE LABOR COST BY SWAPPING OUT AN ENTIRE ENGINE.

**JEFF GUTZWILLER, CAT REMAN PRODUCT MANAGER,
ENGINES & ENGINE COMPONENTS**



ENGINE COMPONENTS

- + AC compressors
- + Air compressors
- + Air dryers
- + Air starters
- + Camshafts
- + Clean Emissions Modules (CEMs)
- + Crankshafts
- + Cylinder heads
- + Cylinder packs
- + Dampers
- + Diesel particulate filters
- + Electronic controls
- + Electronic Control Units (ECUs)
- + Engine overhaul kits
- + Exhaust gas bypass valves
- + Fan clutches
- + Fuel nozzles & injectors
- + Fuel pumps & governors
- + Oil coolers
- + Oil pumps
- + Pre-lube pumps
- + Rocker arms/lifters
- + Turbochargers/cartridges
- + Starters/alternators
- + Water pumps
- + 3600 pre-chambers

WHAT TO EXPECT FROM CAT REMAN ENGINES AND ENGINE COMPONENTS

QUALITY. DURABILITY. LONG LIFE.

You can count on Cat Reman engines and engine components to deliver high performance on the toughest jobs and in the most extreme conditions. That's because our cutting-edge quality, salvage and remanufacturing techniques ensure every product meets original factory performance specifications.

All engine components are:

- + Disassembled, cleaned and inspected for damage
- + Salvaged using advanced techniques
- + Updated to include the latest engineering changes
- + Put through multiple quality checks, including an extensive end-of-the-line test

For complete engines, long blocks and short blocks, we also:

- + Replace all piston rings, rubber parts, springs, seals, gaskets and O-rings with 100% new components
- + Regrind and polish crankshaft and journal surfaces
- + Replace cylinder liners or re-hone cylinder bores to exact dimensions
- + Reassemble the final product to meet original performance specifications and like new quality



HOW YOUR CORE REDUCES YOUR COSTS

EXCHANGE A VIABLE CORE FOR A CAT REMAN COMPONENT

Our remanufactured products program runs on an exchange basis. When your engine or engine component reaches the end of its life, and you purchase a Cat Reman replacement, you can return your core to your Cat dealer in exchange for core credit.

Your dealer inspects your used/end-of-life core to determine its viability. That determines the amount of your core credit. In most cases, you receive full or partial credit³ for cores that:

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

Dealers and customers may strip and inspect a core if required for proper failure analysis. To receive credit, it is essential for the component to be reassembled and demonstrate that it still meets the Core Acceptance Criteria with no damage caused by the strip down.

KEEPING ENGINES AND ENGINE COMPONENTS CURRENT

The Cat Reman team works closely with the design and quality teams of new Cat products. Using the same specifications, the Cat Reman team regularly incorporates engineering updates into the Cat Reman product line.

Each new product introduction means customers have another way to lower owning and operating costs.

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WITH A CAT REMAN PRODUCT, YOU GET A PRICE POINT THAT HELPS **OPTIMIZE YOUR TOTAL COST OF OWNERSHIP** OVER THE LIFE OF THAT PRODUCT. THE REASON WE CAN OFFER **A LOWER PRICE POINT** IS BECAUSE WE'RE GETTING THAT CORE BACK.

**JEFF GUTZWILLER, CAT REMAN PRODUCT MANAGER,
ENGINES & ENGINE COMPONENTS**

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REMANUFACTURED TO LAST. BACKED BY A CATERPILLAR LIMITED WARRANTY¹.

ALL CAT REMAN ENGINE COMPONENTS ARE PROTECTED UNDER OUR **SAME-AS-NEW**, 12-MONTH CATERPILLAR LIMITED WARRANTY¹. OUR COMPLETE CAT REMAN ENGINES ARE BACKED BY A CATERPILLAR LIMITED WARRANTY¹. EVERY ENGINE AND ENGINE COMPONENT WARRANTY¹ COVERS CATERPILLAR DEFECTS IN MATERIAL AND/OR WORKMANSHIP AND RESULTANT DAMAGE¹.

Reach out to your dealer to learn more about the warranty, core exchange and other Cat Reman details. With a variety of remanufactured engines and engine components, we can help you find the right solution for your application.

Explore additional information, resources and repair options at www.cat.com/reman.

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

²Represents U.S. environmental impacts comparing "gate-to-gate" remanufacturing and manufacturing processes for engines and components. Based on 2018 external study of Cat engines, alternators and turbochargers. Does not include impacts elsewhere in our value chain.

³Core Acceptance Criteria (CAC) vary by component and are subject to change. Partial core refunds are available for some Cat Reman components. See your Cat dealer for specific information.



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