

# CUSTOMIZED DEALER REPAIR OPTIONS PLUS INDUSTRY-LEADING SERVICE

For everything from minor repairs to comprehensive rebuilds, your Cat® dealer has you covered. Consult with your dealer to tailor repair options to your budget and timing.

Plus, you can opt for upgrades and enhancements that deliver improved safety, convenience, operator comfort, and equipment performance. And you can choose to do some repairs in your own shop or let your Cat dealer handle everything.

You might also consider a Cat Maintenance for Mining Customer Value Agreement (CVA), or a Maintenance & Repair Contract (MARC) that takes some or all of the burden of mining fleet management off of your crew's shoulders, leaving them more time to focus on other site management tasks.

With the backing of Caterpillar component reliability and quality, industry-leading parts availability, and the largest global network, your Cat dealer's wide range of repair options can help you extend machine life, and improve your operations anywhere in the world.

CAT® REPAIR OPTIONS FOR MINING

# SMART. PRODUCTIVE. FLEXIBLE.



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## YOUR BOTTOM-LINE EFFICIENCY IS OUR **TOP PRIORITY**

When you're facing **major repairs** or **component rebuilds** for your mining fleet, you have some options to consider:

- ⊕ Do you run a machine until failure or take a proactive repair approach?
- ⊕ What fits your needs: new, remanufactured, or exchange components?
- ⊕ Can your crew do the repair or should you let your Cat dealer handle it?
- ⊕ Does a Cat® Customer Value Agreement (CVA) or Maintenance & Repair Contract (MARC) make sense for your operation?

From machine availability to the cost management of your operation, it's important that you choose the repair options that make the most sense for your fleet, your site, and your business. We're here to help.



## IT PAYS TO KNOW **YOUR OPTIONS**

Your Cat dealer offers a range of flexible solutions for the entire lifecycle of any mining machine, including repairs, rebuilds, retrofits, and upgrades.

Explore your options in this brochure, then talk with your Cat dealer about the best fit for your fleet.



# FOUR REASONS TO REPAIR BEFORE FAILURE

## PLANNING FOR A REPAIR OR COMPONENT REPLACEMENT IS A SMART MOVE

You can work around production demands, and the machine may only be out of service for a few hours or days.

## ONCE THE OPERATOR NOTICES A PROBLEM, A FAILURE HAS ALREADY OCCURRED

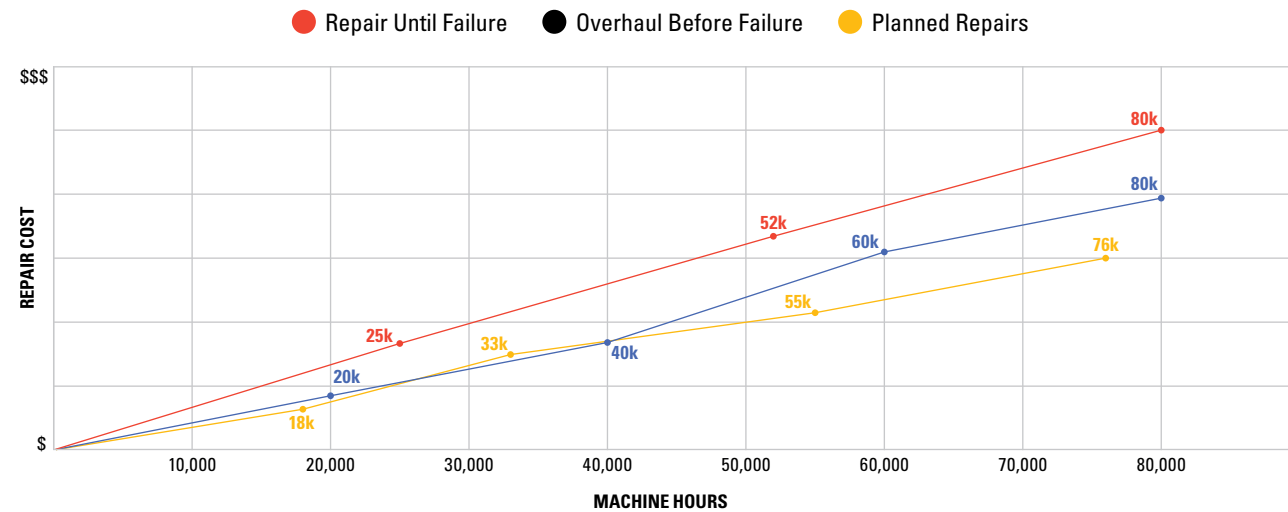
Operators may not feel the effects of a small issue until it's too late to avoid a major repair, or the signs may be ignored to keep up with production.

## PLANNED MAINTENANCE PREVENTS MUCH MORE DOWNTIME THAN IT CAUSES

Unplanned downtime can stop a machine in its tracks out on your site, and a catastrophic failure may put it down for weeks.

## REPAIRING A MAJOR COMPONENT BEFORE IT FAILS IS COST EFFECTIVE

See the graphic below. **And remember:** The costs of lost production will dwarf the cost of almost any repair for machine and powertrain rebuilds.



### RUN UNTIL FAILURE:

The red line shows the cost over time of letting the engine in a Cat 793F haul truck fail twice, then replacing it with a Cat Reman unit at 25,000 and 52,000 hours.

### OVERHAUL BEFORE FAILURE:

The blue line shows the cost of doing a Rebearing/Reseal Plus every 20,000 hours through 80,000 hours, each time before the engine fails.

### PLANNED REPAIRS:

The yellow line shows the cost of doing a Rebearing/Reseal at 18,000 hours, a Dealer Rebuild/Exchange before failure at 33,000 hours, a second Rebearing/Reseal at 55,000 hours, and a final Dealer Rebuild/Exchange before failure at 76,000 hours.

# HOW CAT REPAIR OPTIONS DELIVER INCREASED VALUE

## DESIGNED TO BE REBUILT

Not only do Cat components offer longer wear life, they're designed to be rebuilt. So, your Cat dealer provides repair solutions that work with the entire machine's design specs.

## QUICK TURNAROUND TIME

Industry-leading component availability and options for on-site repairs increase your fleet's physical availability.

## MULTIPLE OPTIONS FOR YOUR BUDGET

Your Cat dealer offers different price tiers across various repairs, helping you control costs with a proactive equipment management plan. Whatever the need, you have options.



# OPTIONS TO CONSIDER FOR CRITICAL MACHINE COMPONENT REPAIRS

1

## REBEARING/RESEAL

**Includes:** Non-reusable parts and those designed to protect mating parts as they wear such as gaskets, bearings, and seals.

**Excludes:** External parts (such as engine injectors, exhaust, and accessory seals).

2

## REBEARING/RESEAL PLUS

**Includes:** All Level 1 parts, plus parts that wear at a slower rate and are designed for reusability. Parts are reconditioned or replaced according to the Caterpillar Reuse and Salvage Guidelines.

3

## DEALER REBUILD/EXCHANGE

**Includes:** All Level 1 and 2 parts, plus parts that typically last the life of the machine unless a major component failure occurs. Level 2 and 3 parts are inspected, reconditioned, and/or replaced according to the Caterpillar Reuse and Salvage Guidelines.

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## CAT REMAN COMPONENT EXCHANGE

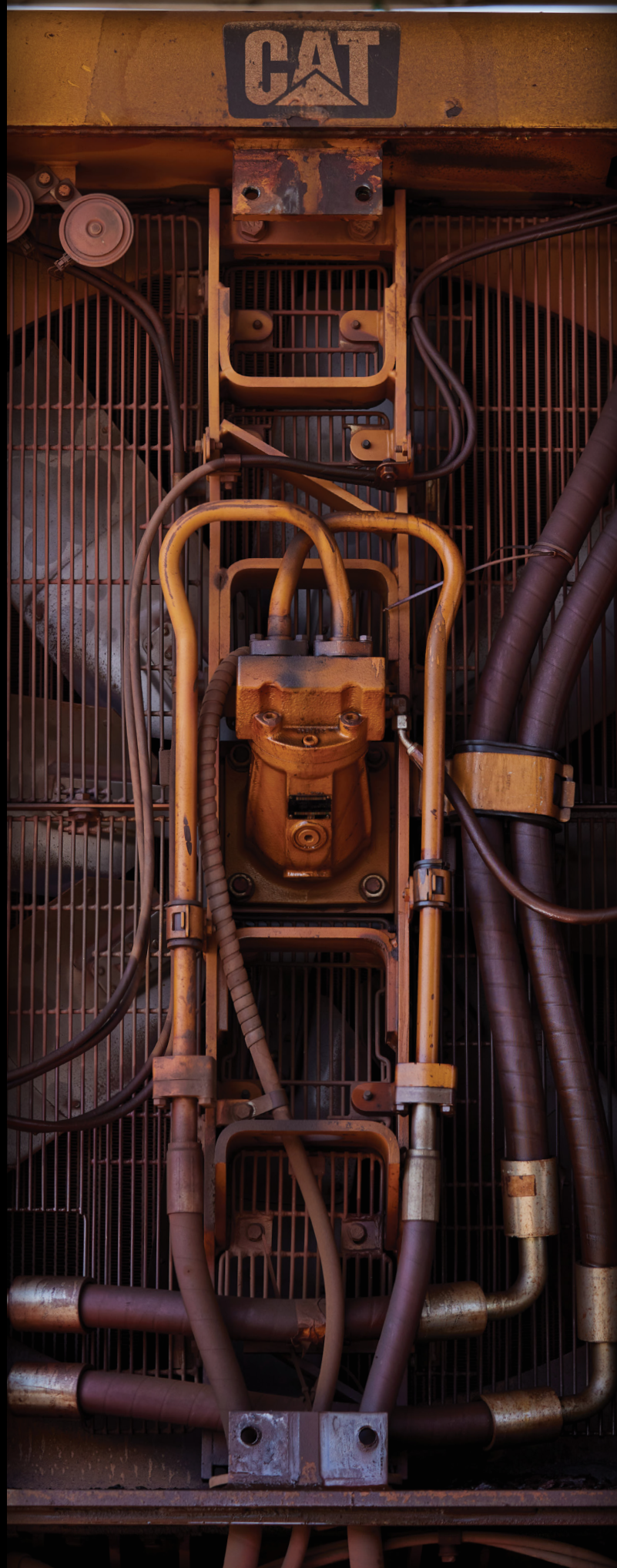
You can choose to exchange an entire component with a Cat Reman unit. Off-the-shelf delivery limits downtime for increased machine availability. Every Cat Reman component is inspected, guaranteed, and covered by the Caterpillar Limited Warranty.\*

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## NEW COMPONENT REPLACEMENT

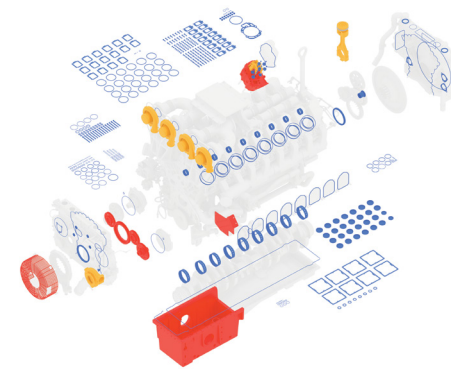
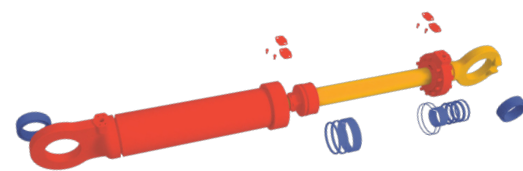
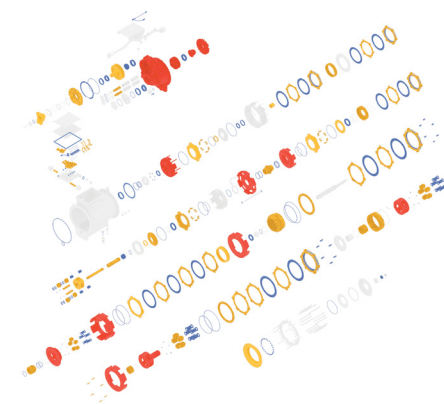
For increased confidence, choose a new Cat replacement component.

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



### REPAIR LEVELS AT-A-GLANCE

● Level 1 Parts ● Level 2 Parts ● Level 3 Parts



## TRANSMISSION

Drivetrain components can be tricky because they're hidden from view, but repairs before failure remain essential. Restoring a transmission after failure can cost more than repairing before.

And because Cat transmission parts are designed to work and wear as a system, replacing any worn parts as soon as possible will help extend the life of the entire component.

## HYDRAULIC SYSTEM

The "muscles" of your machines need special care to maintain performance. Seal wear, leaks, component damage, and fluid contamination can all lead to hidden performance loss.

## ENGINE

Even if an engine is running well, it pays to keep up with maintenance and repairs. Waiting to repair your engine after a failure leads to big increases in repair costs.

## WHEN IS THE BEST TIME TO REBUILD A COMPONENT?

At the target hours for overhaul, rings, bearings, and other essential parts will have already started to wear. The component may also have developed leaks, so performance has likely started to suffer. Plus, the wear on bearings and rings is not linear; it accelerates quickly once wear reaches a critical point.

The best time to rebuild is at the hour intervals recommended by your dealer, or at the earliest signs of the above issues. On a Cat C175 engine, for example, this is normally at around 18,000 hours, depending on load factors and site conditions.