

» **CAT® REMAN INJECTORS**

MAXIMIZE UPTIME AND PERFORMANCE

FULLY WARRANTED, LOW-COST REPAIR OPTION
DESIGNED TO PERFORM WITH TODAY'S FUELS



Get the best wear life, fuel economy and overall performance.

When you need new injectors, choose the repair option developed specifically for your Cat® on-highway engine and today's low-sulfur, low-lubricity fuels. Cat Reman Injectors feature coated plungers for maximum wear resistance, include the latest engineering updates for optimum performance and undergo extensive testing to ensure reliability. That sets them apart from other brands, which can cause horsepower and fuel efficiency losses of up to 5%.

With Cat Reman Injectors, you get same-as-new performance, a same-as-new warranty and off-the-shelf availability — all at a fraction-of-new price. The result is less downtime and lower repair costs, helping you achieve the lowest owning and operating costs over your engine's lifecycle.



INCREASED WEAR RESISTANCE



OPTIMUM PERFORMANCE & FUEL ECONOMY



REDUCED DOWNTIME



A CLOSER LOOK REVEALS THE CAT REMAN INJECTOR DIFFERENCE

Cat Reman Injectors are the only injectors on the market designed and tested to like-new or better standards, helping you achieve the lowest owning and operating costs. Take a look at what we found when we compared them to nine other injectors — three each from three different brands.

END-OF-LINE TEST RESULTS	CAT REMAN INJECTORS			Brand 1 Injectors			Brand 2 Injectors			Brand 3 Injectors		
	#1	#2	#3	#1	#2	#3	#1	#2	#3	#1	#2	#3
Delivery 1	•	•	•		•	•	•				•	
Timing 1	•	•	•	•	•	•	•	•	•	•		
Delivery 2	•	•	•		•		•		•			•
Timing 2	•	•	•	•	•	•	•		•	•	•	•
PIP	•	•	•		•					•		
Leakage	•	•	•	•	•	•	•				•	
Overall	•	•	•		•							

» TOUGH TESTING MEANS PERFORMANCE YOU CAN COUNT ON

Every Cat Reman Injector must pass rigorous end-of-line testing that gauges fuel delivery, timing, peak injection pressure (PIP) and assembly leakage. Eight of the nine other injectors we tested failed to meet all of Cat Reman's high standards.

- Five didn't achieve an acceptable fuel delivery versus timing range, which can result in low power, misfires, poor fuel economy, high smoke levels and high exhaust temperatures.
- Six could not be electronically trimmed, a process for fine-tuning the injector to meet strict emissions and performance standards.
- Four didn't meet injector leakage specs, which can lead to oil dilution and premature component wear.

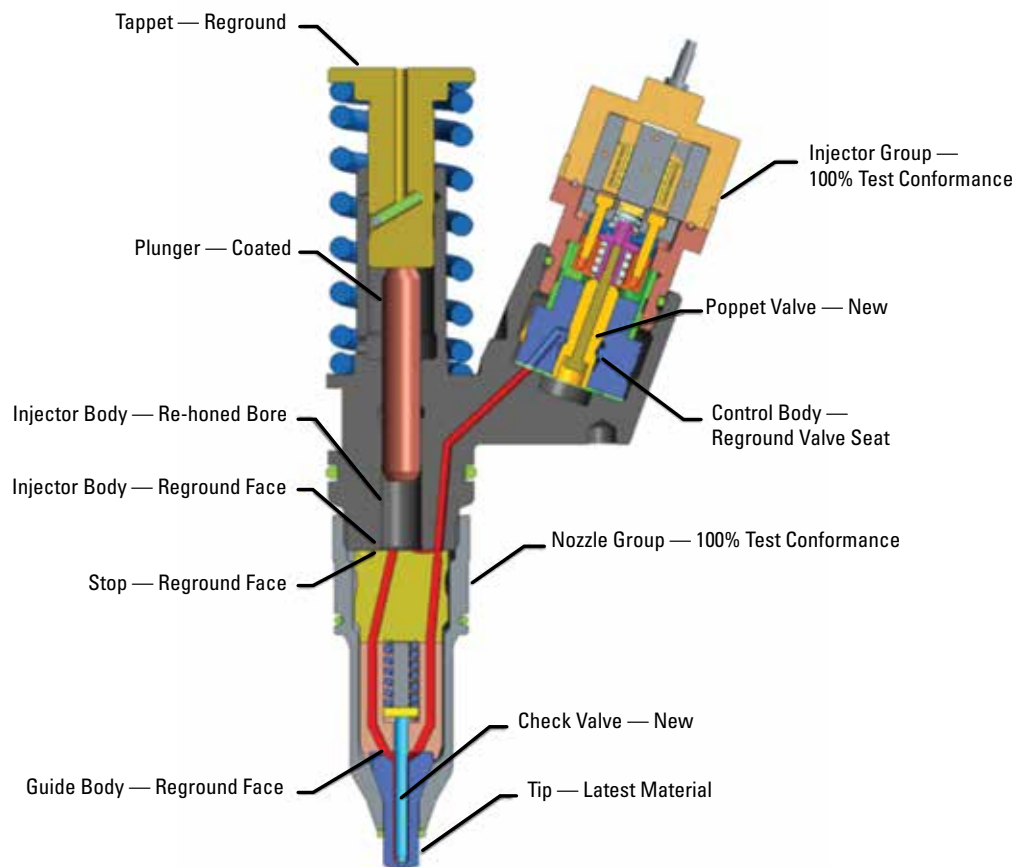
BETTER COMPONENTS FOR LONG-TERM DURABILITY

The other injector brands we tested often employ “clean and reuse” procedures and lack the critical coatings required for today’s ultra-low sulfur fuels — leading to poor injector performance, premature wear and reduced engine and injector life.

COMPONENT COMPARISON	■ High Risk ■ Marginal Quality									
	Plunger	Body Sealing Face	Stop Sealing Face	Body Guide Sealing Face	Tip Material	Tappet Surface	Control Body Valve Seat	Control Valve	Check Guide	Nozzle Group Specs
CAT REMAN INJECTORS	Coated	Reground	Reground	Reground	Latest	Reground	Reground	New	New	100% Conformance
Brand 1 Injectors	Uncoated	Clean & Reuse	Clean & Reuse	Clean & Reuse	Latest & Obsolete	Reground	New, Clean & Reuse	New, Clean & Reuse	Clean & Reuse	Non-Conformance
Brand 2 Injectors	Coated	Clean & Reuse	Clean & Reuse	Clean & Reuse	Latest & Obsolete	Reground	Clean & Reuse	Clean & Reuse	Clean & Reuse	Non-Conformance
Brand 3 Injectors	Uncoated	Reground, Clean & Reuse	Clean & Reuse	Clean & Reuse	Latest & Obsolete	Clean & Reuse	Clean & Reuse	Clean & Reuse	New	Non-Conformance

STRICT SALVAGE PROCESSES GUARANTEE SAME-AS-NEW PERFORMANCE

These critical components inside Cat Reman Injectors are either new or remanufactured to ensure they can withstand the high pressures and meet the tight performance requirements of today’s engines.



SAVING YOU TIME AND MONEY

» WHAT ARE THE RISKS OF **NOT** CHOOSING CAT REMAN INJECTORS?

The other injectors we tested didn't meet Cat Reman standards for materials, salvage or remanufacturing processes. That can result in:

- **Low power and smoke** caused by heavy wear on sealing surfaces, early-hour wear and scratches on the check guide, low PIP, low nozzle-tip flow and high nozzle-tip leak
- **Misfires** caused by armature-to-solenoid contact
- **High exhaust temperatures** caused by post injections
- **Fuel in the exhaust** caused by post injections and high nozzle-back leak
- **Exhaust in the fuel** caused high nozzle-tip leak
- **Fuel-to-oil dilution and seized plungers** caused by uncoated plungers, wear and scratches on plungers and high injector leakage

» GET FULL CREDIT FOR YOUR CORE

Our flexible core acceptance criteria help you get the most for your money. You receive full credit even for a core with a:

- Broken or missing spring
- Cracked or missing tip
- Broken tappet
- Damaged hold-down-clamp lands

» CONTROL YOUR REPAIR COSTS

Cat Reman Injectors are available off the shelf, and with new O-rings preinstalled, they're ready for installation right out of the box — reducing your downtime. They're priced at a fraction of the cost of new parts and come with an industry-leading, unlimited-mileage, 12-month standard warranty.

YOU ALSO HAVE THE
OPTION TO ADD EXTENDED
CAT COMPONENT PLUS
COVERAGE UP TO

48^{MOS}

» YOUR DEALER IS STANDING BY

The Cat dealer network stocks the broadest line of remanufactured parts and components in the industry, supported by the Caterpillar worldwide inventory and distribution system. And with more than 1,400 authorized Cat dealers in North America, your Cat dealer will have the components you need ready to install, minimizing your downtime and maintaining productivity. Contact your local dealer today.