

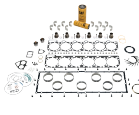




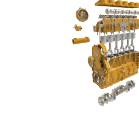




# CAT® REPAIR OPTIONS DESIGNED TO FIT CUSTOMER'S NEEDS

## SOLUTIONS FOR HEAVY-DUTY ENGINES<sup>1</sup>

MINOR LEVEL		CAT® PRECIOUS METALS KITS				ASSEMBLED SOLUTIONS		COMPLETE ENGINES	
 <ul style="list-style-type: none"> <li>» Air compressors</li> <li>» Bearings</li> <li>» Cylinder heads</li> <li>» Cylinder packs and pieces</li> <li>» Electronic Control Modules (ECM)</li> <li>» Filters</li> <li>» Fluids</li> <li>» Gaskets, seals, and o-rings</li> <li>» Injectors</li> <li>» Oil coolers</li> <li>» Oil pumps</li> <li>» Sensors and harnesses</li> <li>» Turbochargers</li> <li>» Water pumps</li> </ul>	 <ul style="list-style-type: none"> <li>» Exhaust manifold</li> <li>» Injector cup</li> <li>» Exhaust bellows</li> <li>» Spacer plate and shim</li> <li>» Camshaft and rocker arms</li> <li>» Head gasket sets</li> <li>» Other gasket sets</li> </ul>	 <ul style="list-style-type: none"> <li>» Economical repair option for engine leaks</li> <li>» No core charge</li> <li>» Includes: <ul style="list-style-type: none"> <li>» Rod and main bearing set</li> <li>» Head gasket set</li> <li>» Front cover gasket</li> <li>» Oil pan gasket</li> <li>» Fuel injector kit gasket</li> <li>» Exhaust manifold sleeves, studs and locking nuts</li> <li>» Oil pan isolator assemblies</li> <li>» Thermostats</li> <li>» Oil and fuel filters</li> </ul> </li> <li>» When pistons, rings, or liners are needed, move to silver</li> </ul>	 <ul style="list-style-type: none"> <li>» Economical engine rebuild option</li> <li>» No core charge</li> <li>» Includes everything in the bronze kit plus: <ul style="list-style-type: none"> <li>» Liners</li> <li>» Liner seals</li> <li>» Piston body skirts</li> <li>» Piston rings</li> <li>» Piston wrist pins</li> </ul> </li> <li>» When connecting rods are needed, move to gold</li> </ul>	 <ul style="list-style-type: none"> <li>» Intermediate engine rebuild</li> <li>» Includes everything in the silver kit plus: <ul style="list-style-type: none"> <li>» Pre-assembled cylinder packs, which come with connecting rods, saving you labor time</li> </ul> </li> <li>» When head or injector set is needed, move to platinum</li> </ul>	 <ul style="list-style-type: none"> <li>» Comprehensive engine rebuild</li> <li>» Includes everything in gold kit plus: <ul style="list-style-type: none"> <li>» Cat Reman cylinder head and cylinder head bolt set</li> <li>» Cat Reman water pump</li> <li>» Cat Reman injectors</li> <li>» Cat Reman oil pump</li> </ul> </li> <li>» When advanced block machining is needed, move to short block or long block</li> <li>» When advanced block machining and VVA set and/or camshaft set is needed, move to long block</li> </ul>	 <ul style="list-style-type: none"> <li>» Cylinder block</li> <li>» Assembled pistons and connecting rods</li> <li>» Crankshaft</li> <li>» If your cylinder block core is damaged or unacceptable, move to long block with new content</li> <li>» When additional components like front gear train and housing, camshaft or VVA sets are needed, move to long block</li> </ul>	 <ul style="list-style-type: none"> <li>» Assembled components: <ul style="list-style-type: none"> <li>» Cylinder block and head</li> <li>» Front gear train and housing</li> <li>» Camshaft and valve train</li> </ul> </li> <li>» Shipped loose components: <ul style="list-style-type: none"> <li>» Fuel pump</li> <li>» Water pump</li> <li>» Oil cooler</li> </ul> </li> <li>» When you choose a Cat Reman long block with new content—which features 100% new cylinder block, cylinder head and crankshaft—even catastrophic engine issues like a broken crankshaft, damaged and/or ventilated block, excessive rust and corrosion or fire damage can get you core credit<sup>2</sup></li> <li>» When turbocharger(s) exhaust/intake manifold, fuel/oil lines, ECM, wiring harnesses or engine sensor set is needed, move to a complete engine</li> </ul>	 <ul style="list-style-type: none"> <li>» Extend the lifecycle of your truck with Cat Reman complete engines</li> <li>» True drop-in solution for customers</li> <li>» Inspected and dyno tested to meet original Caterpillar performance specifications</li> <li>» Includes the electronic control module (ECM), engine wiring harness and sensor set, complete set of oil and fuel lines, turbo(s), injectors, and more</li> <li>» Less downtime and saves money on labor</li> </ul>	 <ul style="list-style-type: none"> <li>» Same features and benefits as Cat Reman engines, plus 100% new cylinder block, cylinder head and crankshaft</li> <li>» When you choose a Cat Reman engine with new content—which features 100% new cylinder block, cylinder head and crankshaft—even catastrophic engine issues like a broken crankshaft, damaged and/or ventilated block, excessive rust and corrosion or fire damage can get you core credit<sup>2</sup></li> <li>» Good option for customers who want to upgrade to a newer model or replace another engine brand<sup>3</sup></li> <li>» Allows you to restart the lifecycle of your engine, making future overhauls possible</li> </ul>
INDIVIDUAL COMPONENTS	MINOR LEVEL REPAIR KITS	BRONZE	SILVER	GOLD	PLATINUM	CAT REMAN SHORT BLOCK	CAT REMAN LONG BLOCK AND LONG BLOCK WITH NEW CONTENT	CAT REMAN ENGINE	CAT REMAN ENGINE WITH NEW CONTENT

### CATERPILLAR WARRANTIED PRODUCT

Genuine Cat® new and Cat Reman parts are covered by a 12-month Caterpillar Limited Warranty<sup>4</sup> against Caterpillar defects in material and/or workmanship.

Cat Reman heavy-duty engines are covered by a 24-month Caterpillar Limited Warranty.<sup>4</sup>

Cat Reman medium-duty engines are covered by a 36-month, 150,000 miles or 3,600 hours Caterpillar Limited Warranty,<sup>4</sup> plus towing coverage for the first 12 months.

### EXTENDED SERVICE COVERAGE (ESC)

U.S. and Canada only

Qualified components have available Component Plus ESC options up to 48 months. This coverage pays for parts and repairer labor charges for covered component failures due to defects in materials or factory workmanship under normal use and service.

Cat precious metals kits have available ESC options no matter if installed by an authorized Cat dealer or the do-it-yourself installer.

ESC Terms for precious metals kit parts last up to 48 months from the purchase date. Should a kit part fail due to a defect in material or factory workmanship your authorized Cat dealer will replace it.

Cat Reman heavy-duty engines have ESC options up to 60 months.<sup>5</sup>



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<sup>1</sup>Repair options and component consists may vary by model. New content options not available for all models. Contact your authorized Cat dealer for details.

<sup>2</sup>Additional requirements apply. Contact your authorized Cat dealer for more information.

<sup>3</sup>Some exclusions apply

<sup>4</sup>Warranty can vary by model and application; limitations apply. For complete details about the applicable Caterpillar Limited Warranty, contact an authorized Cat dealer.











<sup>5</sup>60-month coverage is available on heavy-duty Cat Reman engines, with a 500k mile limit. Contact your authorized Cat dealer for details.





# CAT® REPAIR OPTIONS DESIGNED TO FIT CUSTOMER'S NEEDS

## SOLUTIONS FOR MEDIUM-DUTY ENGINES<sup>1</sup>

MINOR LEVEL	CAT® PRECIOUS METALS KITS				ASSEMBLED SOLUTIONS		COMPLETE ENGINE		
 <ul style="list-style-type: none"> <li>» Air compressors</li> <li>» Bearings</li> <li>» Cylinder heads</li> <li>» Electronic Control Modules (ECM)</li> <li>» Filters</li> <li>» Fluids</li> <li>» Gaskets, seals, and o-rings</li> <li>» HEUI pump</li> <li>» Injectors</li> <li>» Oil coolers</li> <li>» Oil pumps</li> <li>» Pistons and connecting rods</li> <li>» Sensors and harnesses</li> <li>» Turbochargers</li> <li>» Water pumps</li> </ul>	 <ul style="list-style-type: none"> <li>» Excellent mid-life performance improvement</li> <li>» Includes: <ul style="list-style-type: none"> <li>» Six Cat Reman injectors</li> <li>» Cat Reman HEUI pump</li> <li>» Holddown bolts</li> <li>» IAP sensor</li> <li>» Seals and o-rings</li> </ul> </li> <li>» Stand-alone repair option or combine with other precious metals kits to improve longevity and restore engine performance</li> </ul>	 <ul style="list-style-type: none"> <li>» Economical repair option for engine leaks</li> <li>» No core charge</li> <li>» Includes: <ul style="list-style-type: none"> <li>» Rod, main and thrust bearing set</li> <li>» Connecting rod bolts and nuts</li> <li>» Fuel injector hold down bolts</li> <li>» Cylinder head gasket set</li> <li>» Front cover gasket</li> <li>» Valve cover seal</li> <li>» Oil pan gasket</li> <li>» Fuel injector gasket kit</li> <li>» Exhaust manifold sleeves, studs and locking nuts</li> <li>» Front and rear main seal / wear sleeves</li> <li>» Oil fill cap</li> <li>» Thermostats and gaskets</li> <li>» Oil and fuel filters</li> </ul> </li> <li>» When pistons or rings are needed, move to silver</li> </ul>	 <ul style="list-style-type: none"> <li>» Economical engine rebuild option</li> <li>» No core charge</li> <li>» Includes everything in the bronze kit plus: <ul style="list-style-type: none"> <li>» Piston crown</li> <li>» Piston skirt</li> <li>» Piston rings</li> <li>» Piston wrist pins and clips</li> </ul> </li> <li>» When connecting rods are needed, move to gold</li> </ul>	 <ul style="list-style-type: none"> <li>» Intermediate engine rebuild</li> <li>» Includes everything in the silver kit plus connecting rods</li> <li>» When cylinder block needs advanced machining and injector sets, move to platinum</li> </ul>	 <ul style="list-style-type: none"> <li>» Comprehensive engine rebuild</li> <li>» Includes everything in gold kit plus: <ul style="list-style-type: none"> <li>» Cat Reman bare cylinder block</li> <li>» Cat Reman cylinder head</li> <li>» Cat Reman HEUI pump</li> <li>» Cat Reman injectors</li> <li>» Cat Reman oil pump</li> <li>» Injection actuation pressure sensor</li> </ul> </li> <li>» When camshaft, crankshaft, front gear set and valve train are needed, or you need a quicker turnaround time, move to titanium</li> </ul>	 <ul style="list-style-type: none"> <li>» Cylinder block</li> <li>» Assembled pistons and connecting rods</li> <li>» Crankshaft</li> <li>» When additional components like camshaft or VVA sets are needed, move to long block</li> </ul>	 <ul style="list-style-type: none"> <li>» Assembled Cat Reman engine solution provides quicker turnaround time</li> <li>» If injectors, HEUI pump, front gear train, or cylinder headware needed, move to titanium precious metals kit</li> <li>» When turbocharger(s), exhaust/intake manifold, fuel/oil lines, ECM, wiring harnesses or engine sensor set is needed, move to a complete engine</li> </ul>	 <ul style="list-style-type: none"> <li>» Complete out-of-frame overhaul</li> <li>» Pre-installed components mean quicker turnaround time for a repair</li> <li>» Includes everything in gold kit plus: <ul style="list-style-type: none"> <li>» Assembled components: <ul style="list-style-type: none"> <li>» Cat Reman crankshaft</li> <li>» Cat Reman camshaft</li> <li>» Front housing and gear train</li> <li>» Valve cover base and set</li> </ul> </li> <li>» Shipped loose components: <ul style="list-style-type: none"> <li>» Cat Reman oil cooler</li> <li>» Cat Reman fuel transfer pump</li> <li>» Fuel injectors and IAP sensor</li> </ul> </li> </ul> </li> <li>» When turbocharger(s), intake/exhaust manifold, rear flywheel housing, fuel/oil lines, ECM, wiring harnesses or engine sensor set is needed, move to a complete engine</li> </ul>	 <ul style="list-style-type: none"> <li>» Extend the lifecycle of your truck with Cat Reman complete engines</li> <li>» True drop-in solution for customers</li> <li>» Inspected and dyno tested to meet original Caterpillar performance specifications</li> <li>» Includes the electronic control module (ECM), engine wiring harness and sensor set, complete set of oil and fuel lines, turbo(s), injectors, and more</li> <li>» Less downtime and saves money on labor</li> <li>» Allows you to restart the lifecycle of your engine, making future overhauls possible</li> </ul>
INDIVIDUAL COMPONENTS	HEUI FUEL SYSTEM KIT	BRONZE	SILVER	GOLD	PLATINUM	CAT REMAN SHORT BLOCK	CAT REMAN LONG BLOCK	TITANIUM PRECIOUS METALS KIT	CAT REMAN ENGINE

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Cat Reman heavy-duty engines are covered by a 24-month Caterpillar Limited Warranty.<sup>2</sup>

Cat Reman medium-duty engines are covered by a 36-month, 150,000 miles or 3,600 hours Caterpillar Limited Warranty,<sup>2</sup> plus towing coverage for the first 12 months.

### EXTENDED SERVICE COVERAGE (ESC)

U.S. and Canada only

Qualified components have available Component Plus ESC options up to 48 months. This coverage pays for parts and repairer labor charges for covered component failures due to defects in materials or factory workmanship under normal use and service.

Cat precious metals kits have available ESC options no matter if installed by an authorized Cat dealer or the do-it-yourself installer.

ESC Terms for precious metals kit parts last up to 48 months from the purchase date. Should a kit part fail due to a defect in material or factory workmanship your authorized Cat dealer will replace it.

Cat Reman medium-duty engines have ESC options up to 48 months.



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TRUCK ENGINE  
RESOURCE CENTER**

<sup>1</sup>Repair options and component consists may vary by model. New content options not available for all models. Contact your authorized Cat dealer for details.

<sup>2</sup>Warranty can vary by model and application; limitations apply. For complete details about the applicable Caterpillar Limited Warranty, contact an authorized Cat dealer.