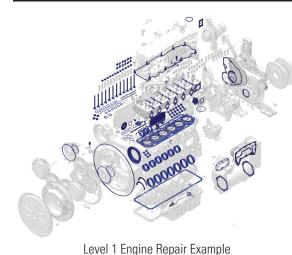
LONGER LIFE, LOWER COST Repair options for Cat[®] 330C/D Excavators





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ENGINE REPAIR OPTIONS



Inspect or Test:

- Camshaft
- Cooling system
- Cooling fan
- Coolant hoses
- Radiator
- Crankshaft
- Cylinder block
- ECM
- Engine mounts
- Engine oil cooler
- Exhaust & intake manifolds
- Fan drive, pulleys, belts & belt tensioner

- Flywheel & ring gear
- Front gear train
- Fuel injectors
- Fuel transfer pump & fuel lines
- Fumes disposal & clamps
- Piston spray jets
- Pushrods, lifters & spring guides
- Rocker arm assemblies
- Intake & exhaust
- Rocker arm shaft
- Turbocharger, aftercooler/hoses & clamps
- Unit injection hydraulic pump
- Vibration damper
- Wiring harnesses, switches & sensors

Quote	Level 1	Level 2	Level 3	Level 4
Recondition, repair, or replace	In-frame	Out-of-frame	Out-of-frame	Reman
Camshaft bearings	Х	Х	Х	
Coolant temperature regulator	Х	Х	Х	
Crankshaft thrust plates	Х	Х	Х	
Exhaust manifold studs/locknuts	Х	Х	Х	
Gaskets & seals for components that are removed	Х	Х	Х	
Main bearings & rod bearings	Х	Х	Х	
Breather	Х	Х	Х	
PM Service - oil, fuel, & air filters	Х	Х	Х	
Turbocharger (mounting) studs/locknuts	Х	Х	Х	
Cylinder head	Х	Х	Х	
Cylinder pack	Х	Х	Х	
Water pump		Х	Х	
Turbocharger		Х	Х	
Engine oil pump	Х	Х	Х	
Fuel injectors	Х	Х	Х	
Paint engine		Х	Х	
Fuel transfer pump		Х	Х	
Engine oil cooler		Х	Х	
Rocker shaft and arm assemblies (as needed)			Х	
Electrical wiring harness and sensors			Х	
Piston spray jets			Х	
Front gear train bearings		Х	Х	
V-belt			Х	
Polish crankshaft			Х	
Inspect fuel lines and replace (as needed)			Х	
Camshaft				
Crankshaft				
Exhaust & intake manifolds				
Fan drive, pulleys, belts & belt tensioner				
ECM				
Dyno test engine		Х	Х	
Replace with Cat remanufactured, includes starter and alternator				Х

FINAL DRIVE REPAIR OPTIONS

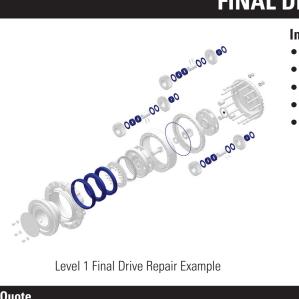
Inspect: Gears

Shaft

Carrier

Wheel spindle

Operational test



Quote	Level 1	Level 2	Level 3
Recondition, repair, or replace	Rebearing reseal	Repair or recondi- tion as needed	Reman
All bushings and anti-friction bearings	Х	Х	
All seals and gaskets	Х	Х	
Thrust washers	Х	Х	
Duo-Cone™ seal	Х	Х	
Miscellaneous hardware	Х	Х	
Replace, repair, or recondition as needed for the following:			
Planet gears		Х	
Sun gears		Х	
Planet shafts		Х	
Ring gear		Х	
Wheel spindle		Х	
Case repairs		Х	
Shafts		Х	
Housings & carriers		Х	
Replace with Cat remanufactured			Х

REPAIR OPTIONS

Level 1 Engine

Level 2 Engine

Level 3 Engine

Level 4 Engine

Minor Overhaul

Includes: bearings, seals, gaskets and normal onelife "wear" parts. Assumes all multiple-life parts meet Caterpillar reuse guidelines

Does not include:

external parts, including turbos, exhaust, electrical and electronics

Major Overhaul

Includes: all Level 1 parts and turbocharger. Reconditions or replaces other critical parts not meeting Caterpillar reuse guidelines.

Does not include:

Replacement housings, carriers, valve bodies, shafts or machine work.

Complete Rebuild

Includes: Complete component rebuild including all Level 1 & 2 parts. Replacement of sensors and harness.

Does not include: Replacement of major housings/castings.

Remanufactured

Includes: Starter and alternator.

Price:	
Customer name:	
Customer phone number:	
Date:	
Model serial number:	
Make/model:	
Salesman:	



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REPAIR OPTIONS

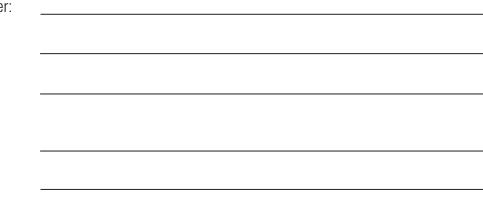
Level 1 Final Drive	Level 2 Final Drive	Level 3 Final Drive
Minor Overhaul	Major Overhaul	Remanufactured
Includes: bearings, seals, gaskets and normal one- life "wear" parts. Assumes all multiple-life parts meet Caterpillar reuse guidelines	Includes: all Level 1 parts. Reconditions or replaces other critical parts not meeting Caterpillar reuse guidelines.	
Does not include: replacing housings, carriers, shafts, machine work, or other critical parts not meeting Caterpillar reuse guidelines.		
e:		
tomer name:		

Date:

Model serial number:

Make/model:

Salesman:





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