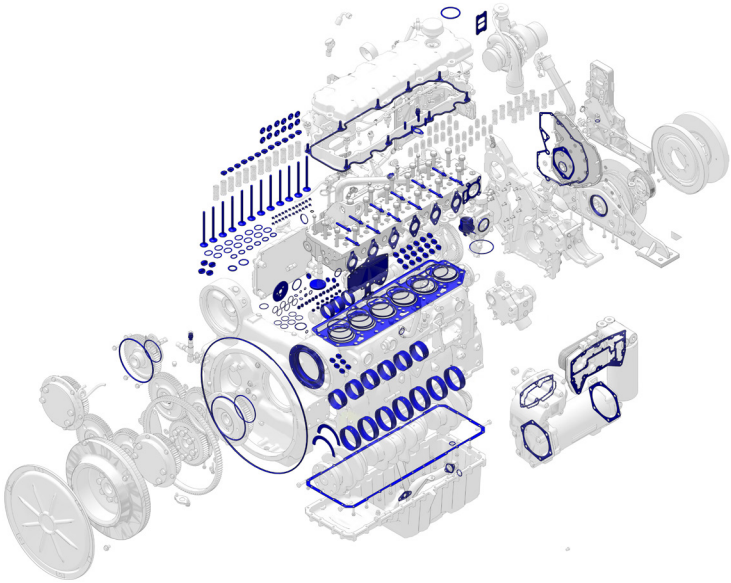
320D C6.4 Engine Repair Options



Level 1 Reseal Rebearing

>> Extends life of the engine before failure
>> Reduces oil consumption/smoke
>> Improves starting ability
>> Restores power
>> Restores fuel consumption level

$

Warranty _____

Customer Name _____

Contact Phone No. _____

Date _____

Model _____

Serial No. _____

Total Estimated Price _____

Sales Person _____

Contact Phone No. _____

Turn Around Time _____

(SMCS code 02A for Level 1, 02B for Level 2)

INCLUDES

NEW PARTS INSTALLED

- Camshaft bearings
- Coolant temperature regulator
- Crankshaft thrust plates
- Exhaust manifold studs/locknuts
- Freeze plugs
- Gaskets & seals
- Main bearings & rod bearings
- Piston rings
- PM Service -oil, fuel and air filters
- Turbocharger (mounting) studs/locknuts
- Valve spring lock retainers, valve rotocoils & exhaust valves

INSPECT OR TEST

- Camshaft
- Connecting Rods
- Cooling system
  - Cooling fan
  - Radiator
  - Coolant hoses
  - Water Pump
- Crankshaft
- Cylinder block & bore condition
- Engine mounts
- Engine oil cooler
- Exhaust & intake manifolds
- Fan drive, pulleys, belts & belt tensioner
- Flywheel & ring gear
- Front gear train
- Fuel injection pump & lines
- Fuel injectors
- Fumes disposal & clamps
- Integral oil pump
- Piston spray jets
- Pushrods & tappets
- Rocker arm assemblies
  - Intake & Exhaust
  - Rocker arm Shaft
- Turbocharger , aftercooler / hoses & clamps
- Valve springs, intake valves, seats & guides
- Vibration damper
- Wiring harnesses, switches & sensors

SERVICES PERFORMED

Operational test to include:

- Fill lube system by pressurizing the engine oil passages with 15/40 wt oil
- Steam clean engine

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RECOMMENDED LEVEL 2 ADD-ONS - Install Reconditioned or Cat Remanufacturing		Estimated Charge
Cylinder head - excludes Level 1 parts	Dealer Rebuild or Reman	$
Pistons, wrist pins & connecting rods	Dealer Rebuild or Reman	$
Integral oil pump*	Dealer Rebuild or Reman	$
Water pump*	L1-Reseal and Rebearing L2-Reman	$
Fuel Injectors	Reman or New	$
Coolant Hoses and Accessory Belts*	New	$
Turbocharger	Dealer Rebuild or New	$
Fuel Injection Pump	Reman or New	$
Dyno Test Engine		$
Engine Painted		$

* highly recommended

ADDITIONAL CHARGES - Quoted after inspection	Description
Engine removal and installation	
Air condition compressor repairs	
Hydraulic pump repairs	
Electrical repairs	
Radiator, engine/hydraulic oil cooler, aftercooler repairs	
Hoses, Belts and Lines	
Integral oil pump parts other than bearings, seals and gaskets	
Reconditioning inspected major wear parts that do not meet reuse and salvage guidelines	Eg. Crankshaft, camshaft, rocker assembly, valve guides, etc.
Damaged castings	Cylinder block, cylinder head, front cover, rear housing, flywheel housing, flywheel, oil pan)
Damaged remanufactured cores or Non-Cat cores	
Electrical repairs	
Engine mounts	
Exhaust heat shields	
Exhaust & intake manifolds	
Fan drive	
Front gear train	
Starter & alternator	
Wiring harnesses	
Pulley(s) & vibration damper	
Transmission & hydraulic oil cooler	
Machine work	

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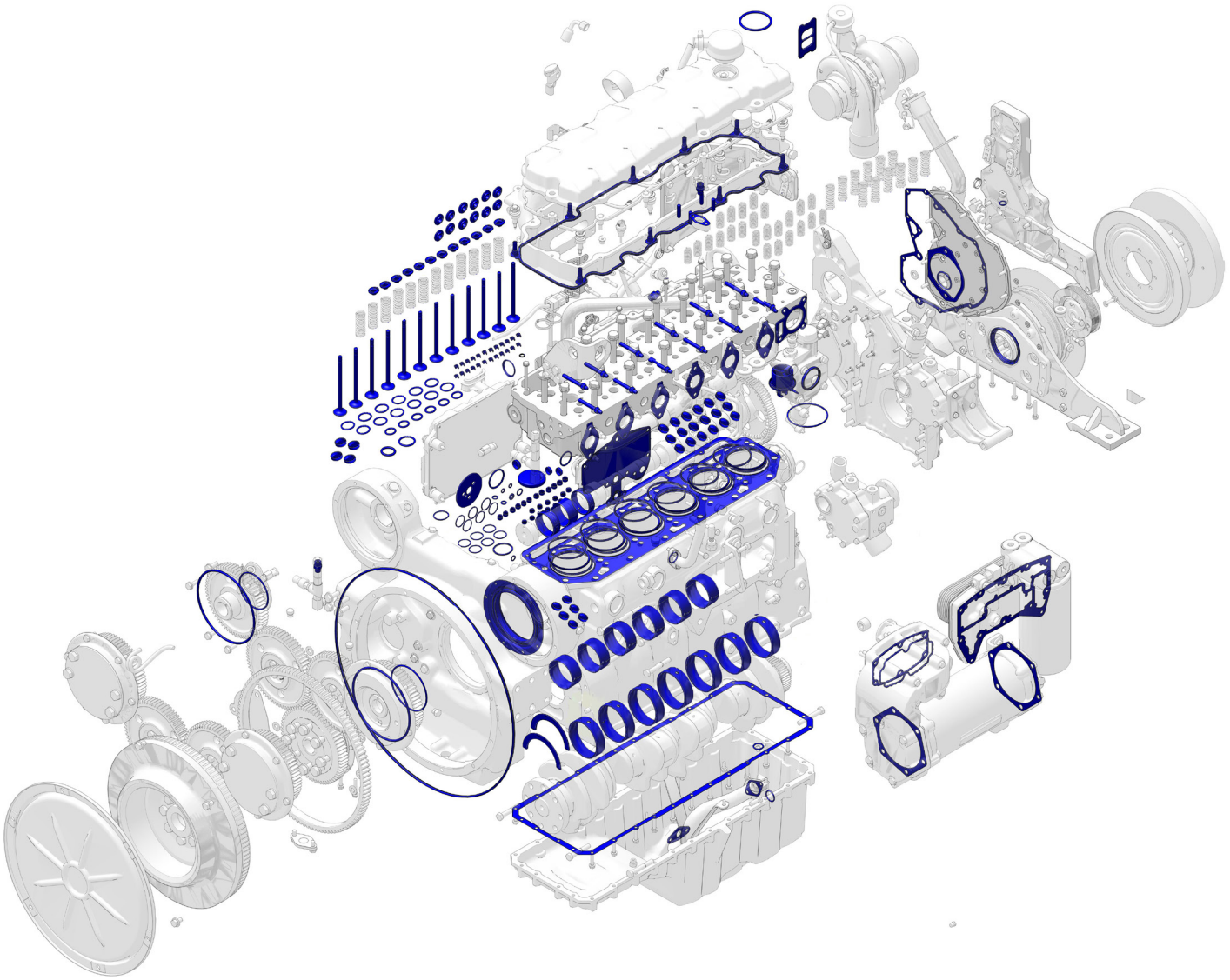

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