

# DIESEL POWER HOLLAND

Diesel Power Holland offers you a rebuild engine.

With this rebuild, only original Caterpillar parts will be used.

All parts that are being re-used, will be inspected and checked if they fit within the standard requirements of Caterpillar.

A warranty\* of 6 months will be given on parts only.

This way we are able to build and deliver an engine with the lifetime and quality you can expect.

Date

24/3/20

Engine type

Cat 3512B

Serial number

4TN00111

| Description             | New/Cat Reman                       | Overhauled                          | Used                                | Not included**                      | Description         | New/Cat Reman                       | Overhauled               | Used                     | Not included**                      |
|-------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|---------------------|-------------------------------------|--------------------------|--------------------------|-------------------------------------|
| Cylinder block          | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | Fuel injection pump | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Crankshaft              | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | Fuel injector       | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Main bearings           | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            | Fuel transfer pump  | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Cylinder head           | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            | Fuel lines          | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Valve mechanism         | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | Fuel filter         | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Camshaft                | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | Waterpump           | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Camshaft bearings       | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            | Sea waterpump       | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Cylinder packs          | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            | Heat exchanger      | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Connection rod bearings | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            | Expansion tank      | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Oil pump                | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | Turbocharger        | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Oil cooler              | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            | Aftercooler         | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Oil pan                 | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | Air filter          | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Oil filter              | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | Seals and gaskets   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| Gear rear               | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | Starter             | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Flywheel housing        | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | Alternator          | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Flywheel                | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | ECU                 | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Gear front              | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | Wiring              | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Front housing           | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | Compressor          | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

\* Warranty does not include coverage of additional cost such as labour and traveling cost.

\*\* Parts that are not included can be offered on request.



Marine



Offshore



Industrial



EPG



Natural Gas

Oostelijke Randweg 18  
4782 PZ Moerdijk  
the Netherlands



# DIESEL POWER HOLLAND

## Rebuild procedure

- Clean the outside surface of the engine with high temp water pressure jet.
- Disassemble the complete engine till the last bolt has removed.
- Clean all loose parts in our ultrasonic baths. (One bath for all cast iron parts and one bath for all copper, aluminium and all other soft alloys parts).
- All loose parts will go through an individual inspection and will be (depending on which part) sanded/sandblasted.
- Crankshaft will be collected by an external party which clean/checks/test it on the following points.
  1. Check hardness, straightness and measurements following Caterpillar specifications.
  2. Clean the complete crankshaft (also internally by removing the plugs).
  3. Check shaft on cracks (done by method called "Magnaflux").
  4. Polishing of all main and connecting rod journals or in case this is not enough the shaft will be grinded to first undersize.
  5. Check again all journals if they meet the Caterpillar specifications.
  6. Measurement report.
  7. On customer wish the shaft can be witnessed by class society BV, DNV, etc.
- Cylinder block cleaned by ultrasonic bath.
- Check if the cylinder block meets all Caterpillar specifications.
- In case the top deck of the cylinder block has marks caused by cooling fluids it will be grinded (external party).
- Sanding all gasket surfaces.
- Clean cylinder block by water pressure jet (especially all oil holes).
- Start with the assemble process this will be done following the Caterpillar guidelines.
- All bearings will be replaced by new ones.
- All pistons will be checked following Caterpillar re-use guidelines. If they don't meet to the re-use guidelines they will be replaced by new or Cat Reman.
- Cylinder heads will be rebuild by local dealer or replaced by Cat Reman.
- Oil, fuel transfer and water pump are done in our own workshop with rebuild kits.
- Rebuilding process of the turbo cartridge will be done by local dealer or replaced by Cat Reman.
- Aftercooler and oil cooler will be pressurized and checked for leaks.
- Camshafts polished.
- Injectors will be tested by pressurize test and replaced by Cat Reman in case of not passing the test.
- Engine rebuilt according to Caterpillar standards and procedures with new and reusable original Caterpillar parts.
- Load tested at test bench.

## Warranty

On a rebuild engine we allow you a warranty of 6 months after shipping date.



Marine



Offshore



Industrial



EPG



Natural Gas

Oostelijke Randweg 18  
4782 PZ Moerdijk  
the Netherlands

