Complete engine – the all-round package.

- Plug-and-play to minimize non-operational times.
- Profitable investment if the goal for the vehicle is to convince with maximum availability for quite some time.
- Premium product for maximum service life, high output at optimum fuel consumption.

**At a glance**

**Package contents**

- EGR valve
- Fill level sensor
- High-pressure pump
- Injectors
- Piston
- Crankshaft
- Engine wiring harness
- Camshaft
- Oil separator
- Oil pump
- Oil spray nozzles
- Oil pan
- Connecting rods
- Rail
- Vibration damper
- Turbocharger
- Vacuum pump
- Heat pump
- Water pump
- Cylinder head with preassembled valves
- Cylinder crankcase
- Cylinder liners
- Various small parts

**Model series**

- All engines

**Warranty**

2-year warranty – may vary by country.

Please check the detailed information about product contents in VeDoc/Xentry Portal Parts Information, or contact your Mercedes-Benz Partner. The pictures and product contents are shown as examples.

**Advantages**

**Availability – rapidly back on the road**

- Plug-and-play: Comprehensive package contents with preassembled components and optimum dimensional accuracy ensure short downtimes.
- The old engine simply has to be removed and the new one installed.
- Saves effort and time since more than 4,000 complete engines are permanently in stock.
- Reduced effort due to optimum engine running characteristics and long durability.

**Cost advantage – replacement on a tight budget**

- Reduced downtime costs because the vehicle is ready for service again as quickly as possible.
- Quickly ready for service after the engine replacement thanks to prefilling with break-in engine oil (Mercedes-Benz special mixture).
- High old part reuse rate contributes to the attractive overall genuine remanufactured part price.

**New parts or new part standards – fitness program for your engine**

- Excellent smooth running characteristics since all rotating components are precisely balanced corresponding to the current technical status of new parts, e.g., crankshaft and camshaft.
- High reliability and durability since all wear parts and small parts are replaced with Mercedes-Benz GenuineParts, e.g., belt pulleys, vibration dampers, critically pressurized lines, bearing shells and pistons.
- Less friction on pistons and shafts ensures optimum smooth running characteristics, efficient fuel consumption and engine leak tightness.

- Compliance with emissions regulation and improved longevity by replacing the valve guides and reworking to the dimensions of the new part.
- Full functionality and longevity are ensured and consequential damage avoided since parts that are obviously functional such as vibration dampers always undergo a functional or dimensional check and are replaced by new parts if necessary.

**Cleaning and examination – carefully cleaned and tested**

- All functional surfaces are carefully cleaned with environmentally friendly cleaning agents. This also reveals any hidden damage. Components that are especially difficult to clean such as the crankcase are cleaned in a multistage industrial process and checked for cleanliness. Advantage: Consequential damage from "bearing seizures" resulting from dirt is avoided. Performance and fuel consumption reach the level of a new engine.
- Detection of micro-damage on highly stressed components using a special crack test procedure with fluorescent magnetic powder. This ensures longevity of the repaired engine parts.
- Highly sensitive test procedures in order to comply with production tolerances in the area of µ-meters. While remanufacturing cylinder crankcases and crankshafts, the spherical shape of the piston ring on the main bearing and the connecting rod bearing must be between 2 and 4 µm.
- Legal emission levels and efficient fuel consumption: Each Genuine Remanufactured Engine is checked on high-tech company test stands with regard to output, torque, fuel consumption and compliance with statutory emission levels.
- Improved long-term corrosion protection and high-end appeal because the complete engine is painted after the test run.