Long block engine – the flexible solution – optional with injector.

- Economical solution with an approx. 45% price advantage compared to the complete engine. High savings potential since detachable components that are still functional are reused.
- Including cylinder head and preassembled valves. They are delivered with or without injectors as requested.

### At a glance

#### Package contents

- Injectors (optional)
- Piston
- Crankshaft
- Camshaft
- Oil pump
- Oil spray nozzles
- Oil pan
- Connecting rods
- Cylinder head with preassembled valves
- Cylinder crankcase
- Various small parts

**Model series**

- Engine model series: OM642, OM646, OM651, M270, M271, M274 etc.

**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

- Reduced downtimes thanks to prompt availability.
- Quick installation possible because major valves are already pre-assembled in the cylinder head and because they are delivered in a special transport container.
- Practical solution in case of more serious engine damage such as crankshaft damage where the cylinder crankcase and cylinder head (possibly the injector) are damaged.

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

- Attractive offer for price-conscious customers who need a remanufactured engine with a fully reconditioned cylinder head.
- Less expensive than buying the short block plus any required replacement parts separately.
- Approx. 45% lower costs compared to replacing the entire engine since all engine components and detachable parts that are still functional are reused.
- Approx. 30% savings during the replacement compared to replacing the complete engine for the option "long block engine with injectors".

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

- Excellent smooth running characteristics since all rotating components are finely 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., seals, bearing shells and pistons. The result is: Less friction on pistons and shafts ensures optimum smooth running characteristics, efficient fuel consumption and engine leak tightness.

#### 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: The Genuine Remanufactured Engines are checked on high-tech company test stands with regard to output, torque, fuel consumption and compliance with statutory emission levels.