Long block engine – the golden mean.

- Reduced downtimes as the engine does not need to be assembled from individual parts.
- High potential savings as still functioning detachable parts are reused.

At a glance

### Package contents

- Genuine Remanufactured long block engine, consisting of:
  - Camshaft
  - Connecting rods
  - Crankshaft
  - Crankcase housing
  - Cylinder head covers (for OM457 and OM500)
  - Cylinder head gaskets
  - Cylinder heads
  - Cylinder liners
  - Nozzle holders (for OM457 and OM500)
  - Oil pump
  - Oil spray nozzles
  - Pistons
  - Timing case
  - Various small parts

### Vehicle and engine model series

- Atego, Axor, Actros, Econic, Zetros, Unimog
- Engine series: 300, 400, 457, 500 and 900

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

Advantages

### Availability – rapidly back on the road

- Drastically reduced downtimes as the engine does not need to be assembled from individual parts.
- Rapid installation thanks to delivery in a well protected wooden crate, with prefitted valves in the cylinder heads.

### Cost advantage – replacement on a tight budget

- 60% lower costs compared to a Genuine Remanufactured engine, as still functioning detachable parts such as the turbocharger, starter and air compressor are reused.

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

- Very smooth running as all rotating parts such as the crankshaft are finely balanced to the current technical standard of new parts.
- Great reliability and durability as all wear parts and small parts are replaced with Mercedes-Benz GenuineParts, e.g. lines and bearing shells subject to pressure loads. The hardened outer skin of cylinder heads is restored to the original condition by induction hardening.
- Compliance with emissions regulations and improved durability, e.g. rigorous replacement of valve guides and reworking of valve seat rings to new part dimensions.

### Cleaning and examination – carefully cleaned and tested

- All functional surfaces are carefully cleaned using eco-friendly cleaning agents. This also reveals any hidden damage. Components that are particularly hard to clean, e.g. the crankcase, are cleaned in a multi-stage industrial process and inspected. This is to prevent consequential damage such as bearing seizure caused by residual soiling.
- Highly sensitive test procedures to remain within series production tolerances of a few micrometers. When reprocessing crankshafts, for example, it is necessary to achieve a spherical accuracy between 2 and 4 μm at the main and conrod bearings.