



18 May 2026

**STANDARD SPECIFICATION – MERCEDES BENZ OM500 DIFFERENTIAL OVERHAUL**

- 1. The purpose of this document is to give details to Supply Chain Management (SCM) of the STANDARD SPECIFICATION – DIFF OVERHAUL that must accompany all Request for Quotations (RFQs) for Diff Overhauls:**
- 2. The following must be done as standard in the diff overhaul process, but not limited to the below:**

<b>No</b>	<b>Standard Requirement</b>
<b>#</b>	<b>Recondition Mercedes-Benz OM 500 Rear Differential Complete:</b>
1	Strip Differential, Repair, Clean and Assemble to OEM Specification
2	Complete New Bearing Kit
3	New Pinion Inner and Pinion Outer Oil Seals
4	New Pinion Lock nut, New Oil Collector and New Pinion Screw Collar
5	New 4.3:1 Ration Crown Wheel and Pinion
6	New Spider Gear Repair Kit
7	New Thrust Pad (crown wheel friction pin), Pinion Spacer and Shims X4
<b>8</b>	<b>Diff Housing</b>
8.1	Check Bearing Journals and Tread Sections to OEM Specification
8.2	Straighten Diff Housing
8.3	Line Bore Diff Housing
9	Repair Pinion Yoke
10	Remanufacture Left and Right-Side Anchor Spider Brackets
11	Remanufacture Left and Right-Side S-Cam Tubes to OEM Specification
12	Fit Two New S-Cams
13	Fit Two New S-Cam Bearing and Seal Kits
14	Remanufacture Left and Right-Side Wheel Hubs to OEM Specification
15	Fit New Left and Right-Side Hub Dust Covers
16	Fit New Left and Right-Side Hub Seal Kits
17	Fit New Left and Right-Side (20) Wheel Studs Kits
18	Remove and Refit Rear Axle
19	Rear Axle Oil Refill
19	Recondition 1 x Mercedes 0500 Propeller Shaft Complete

Approved By End-User

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