



ANDHRA PRADESH STATE ROAD TRANSPORT CORPORATION  
Mechanical Engineering Department, Office of the VC & MD,  
RTC House, Vijayawada -520013

No. OP3/462(10)-2022-MED

**CIRCULAR No. 12 /2022-MED, Dt. 04.10.2022**

Sub: **PREVENTIVE MAINTENANCE:** Periodicity of change of High Performance Wheel Bearing Grease - Reg.

Ref: 1. Circular NO.07/2002-MED, Dt.18-07-2002.  
2. Circular NO.01/2019-MED, Dt.09-01-2019.

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At present, the Wheel Bearing Grease with a change periodicity of 48,000 kms is being used for all Non-AC type buses of TATA, Eicher & Ashok Leyland makes. But, vide reference 2<sup>nd</sup> cited, the periodicity of Schedule-III&IV is revised as 20,000 kms & 60,000 kms respectively and the change periodicity of Wheel Bearing Grease is not matching with none of the preventive maintenance schedules. Hence, depots are changing the Wheel Bearing Grease at every 2<sup>nd</sup> Schedule-III or Schedule-IV based on the condition of the grease.

Now, it is proposed to procure the Wheel Bearing Grease to match the periodicity of Schedule-IV i.e., 60,000 kms. Accordingly, tenders were floated and finalized the sources for supply of Wheel Bearing Grease with change periodicity of 60,000 kms.

In view of the above prevailing practices at the Depots, the following fresh guidelines are issued for strict implementation:

1. Replace the Wheel Bearing Grease for all Non-AC buses of TATA, Eicher & Ashok Leyland make at every 60,000 kms.
2. Match the Wheel Bearing Grease change with Schedule-IV activity invariably.
3. Dry Setting of hubs to be carried out during change of grease. Magnetic Dial Gauge has to be invariably used while Dry Setting of hubs.
4. The recommended clearance shall be provided in the hubs as follows during the Dry Hub setting for all models:

Sl. No	Model	Front hub Play in mm	Rear hub Play in mm	Front WBG Grams/ hub	Rear WBG Grams/ hub
1	TATA BS-2	0.01 to 0.14	0.02 to 0.06	450	450
2	TATA 1512 TC BS-3		0.02 to 0.04		650
3	TATA 1613 BS-4				
4	TATA 1623 TC - BS-IV AC				

5	AL BS-2 & BS-3	0.025 – 0.10	0.025 – 0.10	480	500+/-25
6	AL BS-3 Metro Express - 900 mm			650+/-25	850+/-25
7	AL, BS-3 Jan Bus- 650 mm			650+/-25	Differential Oil (14 Ltrs)@ 80,000 KMs
8	AL 12 Mtrs Indra BS-3 & 4 (AC)			450+/-25	500+/-25
9	AL 210 WB Ghat BS-4			450+/-25	350+/- 25
10	AL 222 WB BS-4			450+/-25	350+/- 25
11	Eicher BS-3	0.04 - 0.10	0.025 – 0.10	800	1350

5. Correct quantity of grease has to be packed into the hub to ensure proper lubrication of bearings.
6. Care shall be taken to keep the hub play to the minimum limit to the possible extent and ensure free rotation of hub after grease packing.
7. Ensure zero play during dry hub setting and add required amount of shims as per make / model to accommodate the wheel bearing grease in the hub and ensure hub free rotation.
8. The Depots/Zonal stores shall have to procure required shims based on the above table and ensure availability at Depots to prevent hassle free maintenance.

All the Depot Managers are advised to instruct the Mechanical In-charges, Sch-III/IV In-charges and concerned mechanical staff to follow the above guidelines without any deviation.

The Depot Managers should arrive at the monthly requirements of Wheel Bearing Grease based on the norms prescribed above to indent the correct quantity.

The above aspects have to be cross checked during the inspection of Depots by concerned inspecting officials.

All the Dy. Chief Mechanical Engineers are advised to review the maintenance practices during the Depot inspections invariably. The periodical change of Wheel Bearing Grease & quantity consumed shall form part of their inspection format hereafter.

 06/10/22

EXECUTIVE DIRECTOR (E)

To

Copy to: ED (O), ED (A), FA & CAO for information.

Copy to: All Executive Directors of Zones for information and n/a.

Copy to: CE (IT) with a request to make necessary modification in CIS module.

Copy to: OSD for information.

Copy to: All District Public Transport Officers for information and n/a.

Copy to: All Dy.CMEs, COSs & WMS for information & n/a.

Copy to: All Depot Managers for necessary action.

Copy to: All Maintenance In-charges for necessary action.