

ANDHRA PRADESH STATE ROAD TRANSPORT CORPORATION

No.OP2/462(12)/2003-MED

Office of the VC&MD
HYDERABAD-20

CIRCULAR No.12/2003-MED, Dt.14.05.2003

SUB:MAINTENANCE:- Revision of maintenance schedule for Air intake system in 1512 TC and 1510 CMVR Vehicles of Tata fleet - Instructions issued - Reg

- REF:1) Cir.No.27/1999-MED, Dt.06.09.1999.
2) Cir.No.02/2000-MED, Dt.24.01.2000.
3) Cir.No.35/2000-MED, Dt.11.09.2000.
4) Cir.No.19/2002-MED, Dt.17.12.2002.

Through the Circulars cited at reference-1 to 3, detailed instructions were issued on the maintenance of 1512 TC Vehicles at Depots. Further, instructions were also issued on the maintenance of 1510 CMVR Vehicles vide Circular cited at reference-4, which was standardised for procurement from Feb'02 onwards.

I. MAINTENANCE OF DRY TYPE AIR CLEANER IN 1512 TC / 1510 CMVR VEHICLES:

1512 TC Cummins & 1510 CMVR type Vehicles are provided with Dry type Air Cleaner system with replaceable filter elements instead of oil bath Air Cleaners as in 1510 (697) Vehicles. In dry type Air cleaner system, Service Indicator was provided to know the condition of air filter & intake system as well as filter elements. In this system, whenever red band appeared in the Service Indicator it was required to clean the filter elements and replace the elements if found necessary duly following the procedure already communicated.

But, on verification and during inspection of Vehicles at Depots it was noticed that the service indicator was not maintained properly on Vehicles and the cleaning and replacement of filter elements was neglected in the absence of indication on the Service Indicator. This will cause failure of turbo charger due to entry of unfiltered air apart from reduced efficiency of Engine due to choked filter elements.

The above aspect was studied by the Service Engineers

of M/s Telco in view of difficulties experienced in maintaining the service indicators and have suggested a periodicity based on KMs for cleaning & replacement of filter elements without depending on the service indicator.

The following is the periodicity for cleaning and replacement of filter elements in dry type air cleaner system in 1512 TC and 1510 CMVR Vehicles as suggested by M/s Telco.

- PRIMARY FILTER CLEANING :EVERY 9,000 KMs
- REPLACEMENT OF PRIMARY FILTER ELEMENT :EVERY 72,000 KMs
- REPLACEMENT OF SECONDARY FILTER ELEMENT:EVERY 2,16,000 KMs

II. MAINTENANCE OF TURBO CHARGER in 1512 TC VEHICLES:

Further, it is also noted that the turbo charger was fitted on 1512 TC Vehicles for increasing power, improved fuel efficiency and reduced exhaust emission. The Turbo charger needs certain periodical maintenance to ensure optimum life of it. M/s Telco have suggested the following maintenance schedule for the turbo chargers fitted on 1512 TC Vehicles.

- Ensure no leakages in the air intake system to avoid unfiltered air into the Turbo charger.
- Check for end play of turbo charger shaft and radial Clearance between turbine wheel & housing at every 72,000 KMs duly opening the outlet of turbo charger near the inlet manifold.
- If any excess play is noticed in the turbine shaft, remove the turbo charger as a unit and send to ZWS for repair.
- Zonal Workshop will replace the parts available in the repair kit and overhaul the turbo charger.

- This will be applicable only on 1512 TC Vehicles since the turbo charger is fitted only on 1512 TC Vehicles. If the Turbo charger is overhauled using the repair kit, then excessive damage to the turbo charger and need for complete overhaul of Turbo charger at the time of overhaul of the engine can be avoided.

There are no changes in other instructions issued vide Circulars cited above in maintenance of 1512 TC and 1510 CMVR Vehicles of Tata fleet except the above two issues.

All Depot Managers of Telco area are advised to note the change of maintenance schedule of dry type air filter system in 1512 TC and 1510 CMVR Vehicles and ensure to implement the same with immediate effect. They are also advised to ensure the checking of condition of turbo charger as mentioned above in case of 1512 TC vehicles.

The Depot Managers are also advised to ensure recording the date and mileage of replacement of primary and secondary filter elements in the Engine mileage cards and also ensure to feed the data in the VEMAS system to know the exact date of next replacement of filter elements. The concerned ADC should be advised to furnish the vehicle numbers for which replacement of Air filters are due along with the EOC\GOC Filter changes programme.

All the Dy.CMEs of Telco area are advised to ensure the implementation of revised instructions in respect of cleaning and replacement of filter elements in Air Filter system and maintenance of turbo charger at the Depots of their jurisdiction with immediate effect.

The COSSs of Telco area are also advised to ensure stocking of repair kit for turbo charger and supply to the Workshops for repairing the turbo chargers.

All the Works Managers of Telco area are advised to ensure overhauling the turbo chargers and supply to the Depots whenever necessary.

All Regional Managers & Divisional Managers of Telco area are advised to ensure the implementation of above circular instructions at the Depots in their jurisdiction and cross check the same during their inspections of Depots.

All Executive Directors (Zones) of Telco area are advised to review the implementation of circular instructions during the review meetings held at Zonal level and ensure the same without deviation.

VICE CHAIRMAN &
MANAGING DIRECTOR

To

All Depot Managers
of Telco area

Copy to: ED(E), ED(MIS), ED(A), ED(O), FA, CAO, All EDs(Z)
for favour of information

Copy to: CME(O), CME(C&B), CME(IE&COM), CM(HRD), CCOS
for information and necessary action.

Copy to: Dy.CME(C&B), Dy.CME(IEU), Dy.CME(P), for
information and necessary action

Copy to: All Dy.CMEs, WMs, COSs of Telco area for n/a.

Copy to: All DVMS & Dy.CAOs of Telco area for n/a.

Copy to: All Maintenance I/cs of Telco for necessary action.

Copy to: Manual Section/Head Office for filing.

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