



Andhra Pradesh State Road Transport Corporation
Office of the Managing Director, Bus Bhavan, Hyderabad - 500 0624.

No: OP5/462(4)/2013-MED

CIRCULAR No.18/2013-MED, Dated.06.08.13.

Sub: MAINTENANCE - Introduction of alternative lubricant for Ashok Leyland BS-III/IV Vehicles model: ALPSV 4/157(Indra) & ALPSV 4/151(BS-IV,222"WB) and revised Engine Oil & Filter Change periodicity for CRS Engines - Instructions issued -Reg.

- Ref: 1. Circular No.33/2011-MED Dt.30.08.2011.
2. Circular No.12/2013-MED Dt.19.06.2013.
3. Service circularNo. 866 of M/s Ashok Leyland Limited.

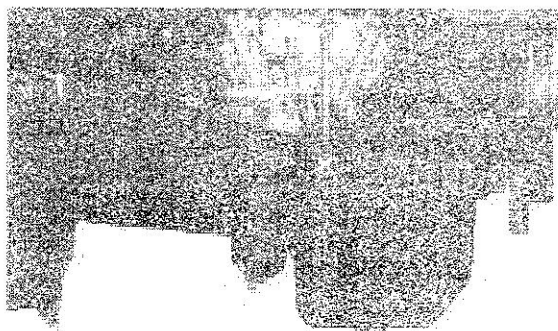
M/s Ashok Leyland Limited has communicated the following modifications on BS-III/BS-IV vehicles.

1. Introduction of deep well sump of 16Lts capacity in Hino engines with spin on type engine oil filter.
2. Addition of new brand as approved engine oil and also enhancement of engine oil drain period.

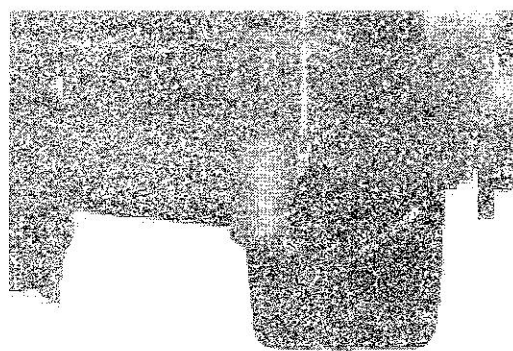
The details are as follows.

- 'A' platform BS-III (Inline) engine: Deep-well oil sump of 16 Lts capacity and spin on type Engine oil filter have been introduced.

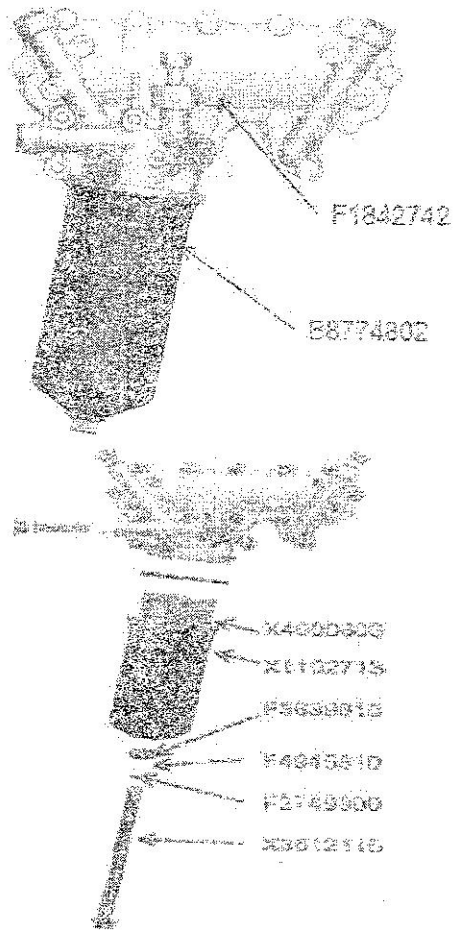
Existing BS-III engine with cartridge type Engine oil filter and regular sump



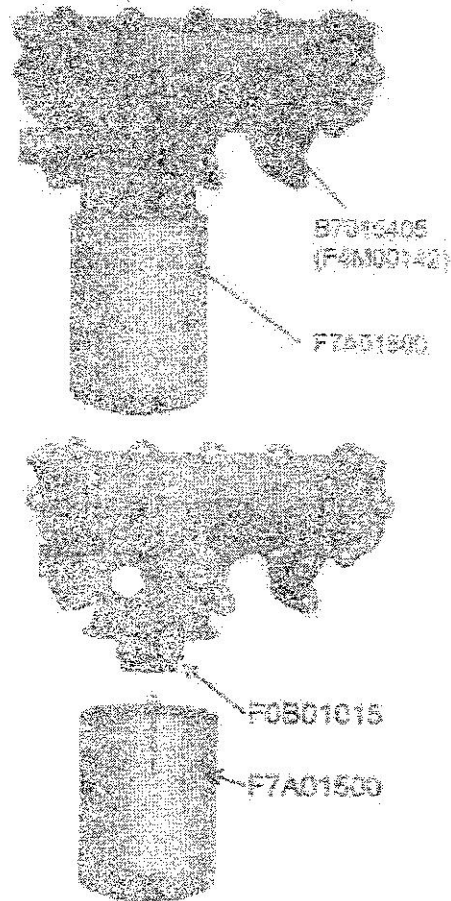
Modified BS-III engine with spin on type Engine oil filter and deep well sump(16 Lts)



Cartridge type filter arrangement with Part Nos (For AL BS-III existing Engine)

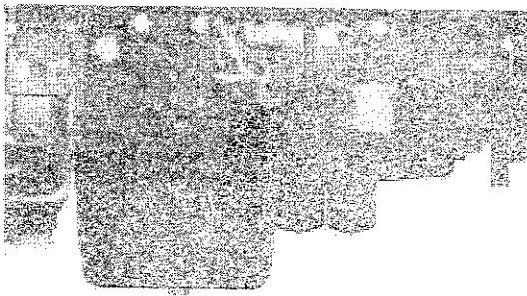


Spin on type filter arrangement with Part Nos (For AL BS-III modified Engine)

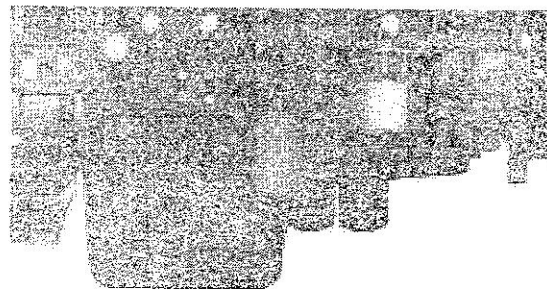


- > B platform Indra/BS-IV engines: As of date all 'B' platform BS-III/IV CRS engines have 16 Lts, deep-well sump as a part of engine build. Now, the spin on type oil filter has been introduced in place of existing cartridge filter.

Existing CRS Engine with cartridge type Engine oil filter



Modified CRS Engine with spin on type Engine oil filter



The following mentioned parts are added to the existing models and are communicated here under.

➤ Existing/Added Parts List:

S. No	Part Description		BS-III(Inline) Engine (A platform)	BS-III/IV CRS Engine (B platform)
1	Oil Cooler with cartridge type filter	Existing	A9233700	A8774800
2	Oil Cooler with spin on type filter	New	A3Z01900	A3Z01800
3	Engine oil level gauge for regular sump	Existing	A9227100	--
4	Engine oil level gauge for deep well sump	New	A6E01300	
5	Oil strainer for regular sump	Existing	A9255800	--
6	Oil strainer for deep well sump	New	A9708000	
7	Regular Oil sump (10.5 Lts)	Existing	A4H01400	--
8	Deep well oil sump (16 Lts)	New	A4H01300	--

➤ Special tool required for spin on filters: Filter Wrench SMT No.PK500020

➤ Procedure of removal & fitment of spin on type Engine oil filter

- Remove the old filter using filter wrench SMT no. PK500020.
- Apply thread seal and a thin coat of clean engine oil to the washer sealing surface of the new spin on filter. Do not use grease.
- Carefully read the installation instructions printed on the outside of the filter to determine the number of turns the filter must be rotated.
- Pre fill the filter with clean engine oil.
- Spin on the new filter until the washer makes contact with the sealing surface on the filter head.
- Mark a reference point on the filter and head to identify the point that the sealing washer first makes contact with sealing surface of the head.
- Rotate the filter half a turn past washer contact.
- Start the engine and check for oil leakage around the sealing washer and filter assembly.

Vide circular at reference 1st & 2nd cited above it was communicated to replace the Engine Oil (Grade SAE15W40, API CH4 of Gulf Superfleet LE Dura Max make only) and Engine oil Filter at 40,000 kms for Ashok Leyland BS-III/IV vehicles fitted with CRS Engines (Hino 'H' Series HA57L165 & H6E4S123).

Now vide service circular 3rd dated M/s Ashok Leyland have recommended an alternate lubricant of M/s Indian Oil Corporation Limited, Brand name "Servo Pride All Plus 15W-40" in addition to the existing "Gulf Superfleet LE Duramax" engine oil for All H series 4th cylinder BSIII (inline) and BS-III/IV(CRS) engines.

M/s Ashok Leyland has also increased the Engine oil drain interval to 20,000 kms with BS-II (inline) & BS-III/IV(CRS) engines which are having spin on type filters with deep well sump (16 Lts) for both City/Highway operations with recommended lubricants. The first engine oil drain period is also 20,000 kms.

Hence, all the Depot Managers and Maintenance Incharges of the concerned depots are advised to ensure replacement of both recommended Engine oil & Filter at 20,000 kms for all Ashok Leyland BS-II (inline) & BS-III/IV(CRS) engine fitted vehicles with spin on filter and deep well sump (16 Lts), to get the advantage of increased engine oil drain period. All the Dy.LMEs & COEs of concerned regions are advised to take prompt action accordingly.


EXECUTIVE DIRECTOR (E&T)

To

All Depot Managers.

Copy to: Dir (VRS), ED (HR&M), Deputy to Genl., ED (DC&E), ED (A&P), FA&CAO for info.

Copy to: All EDs (Zones) for information.

Copy to: All RMs & HODs for necessary action.

Copy to: CC(IT) with an advice to incorporate a scope modification in VEMAS programme.

Copy to: CME (Q), DLTS, CA, CFM, JAWK&S, CP, CA (P&U) & CM (A&S) for information.

Copy to: All DyCMEs, LMs, COEs & DyCAOs for necessary action.

Copy to: All Principals of ZSTC, PTC, RPT & (A) RPT for information.

Copy to: All Maintenance in-charges beyond depots for necessary action.

Copy to: Resident Audit Officer, R.C. Audit, Bus Branch for information.

Copy to: In-charge, Manual Section for records.