



Application of Bulletin LTB00487

The large puff of blue smoke from the exhaust pipes caused by oil pooling in the secondary turbo on D4 due to 2nd turbo oil starvation

PDF of LTB00487v6 here:

<http://www.disco3.co.uk/gallery/albums/userpics/14033/LTB00487v6%20-%203.pdf>

UPDATE: NEW P/N for the parts needed:

- LLR013235 Gasket - Oil Return
- LLR044555 Plug - Blanking
- LLR078875 Hose - Oil Return

1. step was to disconnect the turbo bypass valve from the bottom of the intercooler, allowing any oil to drain out of the intercooler...



Oil and water (condensation) that drained out of the intercooler...





2. Next task is to remove the starter motor, which gives access to the port on the side of the block that the new pipe feeds into. The layout underneath a D4 must be different to a D3, as I'd read a few threads on here about how difficult the D3 Starter is to remove, but with a bit of trial and error this one came out fairly easily.



3. With the starter motor out of the way you can now get at the bottom of the turbo and also the port on the side of the block (seen here with the blank still fitted, secured by 1 bolt)...





New oil return pipe (LR044556) fitted, with new gasket (LR013235)...



New pipe compared to the old one...





4. Blanking plate (LR044555) fitted to sump where old drain pipe used to go.



Whilst I was underneath I decided to remove and check the turbo bypass valve as some people have had problems with it sticking. No problems with mine though, it's been very well lubricated from within!



I won't tempt fate by commenting on how successful the modification has been just yet, but initial impressions are positive! With a few more miles of motorway and urban driving, time will tell. The shorter pipe length and drain into the block above the oil level certainly should allow the oil to drain out of the turbo faster than it did before, so fingers crossed. I believe all vehicles after VIN DA676456 were fitted with the shorter pipe as standard, so this only applies to earlier D4s (date tbc).