Gearbox Oil Partial Change Procedure

- 1. Take the car for a drive to warm up gearbox
- 2. Remove fill plug (8mm hex)
- 3. Remove drain plug (10mm hex)
- 4. Inspect, clean and refit drain plug tighten to 8 Nm
- 5. Refill gearbox until a trickle comes from the fill port
- 6. Start engine
- 7. Refill gearbox until a trickle comes from the fill port again
- 8. Replace fill plug
- 9. Hold foot on brake
- 10. Put in reverse for 5 seconds
- 11. Put in drive for 5 seconds
- 12. Put in 2nd gear using paddle, for 5 seconds
- 13. Put in neutral
- 14. Throttle to 2000 rpm for at least 30 seconds to fill torque converter
- 15. Put in park
- 16. [KW added step] Repeat steps 3 to 15 if doing more than one fluid change
- 17. Let engine idle
- 18. Wait until gearbox oil temperature exceeds 69 degrees C (ie. thermostat starts to open)
- 19. Turn off engine
- 20. Wait for gearbox oil temperature descends to 30 degrees C (a few hours)
- 21. Start engine
- 22. Ensure gearbox oil temperature is equal to or a little greater than 30 degrees C
- 23. Remove fill plug (8mm hex)
- 24. Refill gearbox until a trickle comes from the fill port
- 25. Replace fill plug and torque to 35 Nm
- 26. Check gearbox oil temperature has not exceeded 50 degrees C during filling
- 27. If it has, repeat steps 23 to 28
- 28. Measure fluid out vs fluid in and make sure the same/more went in than came out

Reference:

https://www.disco4.com/forum/robbies-guide-zf8-auto-transmission-oil-change-141425.html

Other fluid quantities for reference during servicing:

- Engine Oil 9.4 Litres
- Front Diff Oil 0.54 Litres (dry fill) or 0.51 (wet fill)
- Rear Open Diff 0.85 litres (dry fill) or 0.82 litres (wet fill)
- Transfer Box Oil 1.5 Litres
- Gearbox Oil 8.5 litres (according to AF website)