6.0L DIT Power Stroke Diesel Engine Oil Change Guide

For 2003.5 M.Y. and later F-250 through F-550 and Excursion with the 6.0L DIT Power Stroke Diesel Engine

LOCATIONS
1. Re-usable oil filter cap  
2. Oil fill port  
3. Oil check dipstick

1. Make sure the vehicle is on level ground.

2. Turn the engine off and wait a few minutes for the oil to drain into the oil pan.

3. Set the parking brake and ensure the gearshift is securely latched in P (Park) (automatic transmission) or 1st (First gear) (manual transmission).

   Important: To avoid engine damage, change the oil filter before draining the oil pan. This allows dirty oil in the filter housing to drain back into the oil pan.

4. Loosen the oil filter cap by using a 36mm socket and a ratchet (location #1)

5. Remove the cap with the oil filter and O-ring attached. Turn the cap and filter upside down so as not to drip oil.

6. Using oil resistant gloves, detach the oil filter and O-ring from the re-usable cap and dispose of properly.

NOTE: Unscrewing the cap opens the oil filter drain and drains the oil from the oil filter housing into the crankcase.

NOTE: Do not handle a hot oil filter with bare hands. Continuous contact with USED motor oil has caused cancer in laboratory mice. Protect your skin by washing with soap and water.
7. From underneath the vehicle, remove the drain plug bolt using a 3/4 in. wrench and drain all the oil from the pan. Check and clean the drain plug threads.

8. Reinstall the drain plug using a new gasket #3C3Z-6734-AA if required. Tighten the drain plug bolt to 14-22 lbf/ft or 19-30 Nm using a 3/4 in. wrench.

9. Attach a new O-ring to the groove above the screw thread on the outside of the re-usable oil filter cap. Apply a small amount clean engine oil to the surface of the new O-ring.

10. Insert the new oil filter element to the inside of the oil filter cap. *Note the oil filter snaps into the oil filter lid.

11. Screw the cap with attached filter back into its housing and torque to 25 Nm or 19 lbf/ft, again using the 36 mm socket and ratchet. Warning: Tightening beyond torque specs will crack reusable oil filter cap.

12. Pour 15 quarts of Motorcraft Super Duty oil or equivalent into the engine using the oil fill port (location #2). Check engine oil level using the oil dipstick (location #3).

13. Start and run the engine for a few minutes, then stop the engine, open the hood and look for leaks. Re-check oil level using the oil dipstick (location #3).

Tools and Materials used during maintenance:
- Socket wrench (36 mm socket) for Oil filter cap
- 3/4 inch wrench for drain plug
- 1 Motorcraft 6.0L diesel engine oil filter with Motorcraft O-ring
- 15 quarts (14.2 L of Motorcraft 15W-40 Super Duty (above 30 F), 15W-30 Super Duty (below 30 F), or 5W40 Synthetic engine oil (API-CJ-4)
- Large oil collecting basin
- Oil resistant gloves
- Paper towels
- Funnel

Important: Some aftermarket oil filters may cause engine damage. Motorcraft oil filters are the only filters designed, engineered and recommended by Ford Motor Company specifically for Power Stroke Diesels.

Warning: Tightening beyond torque specs will crack reusable oil filter cap.