2017-2026 Ford F-150 Raptor - Oil and Filter Change

2017-2026 Ford F-150 Raptor | Easy | 30-45 minutes | $35 DIY

TOOLS

15mm socket 3/8-inch ratchet Oil filter cap socket (EcoBoost cartridge) Drain pan Funnel Torque wrench Shop rags

PARTS

Cartridge oil filter element (3.5L EcoBoost Raptor)
5W-30 full synthetic motor oil, 6 quarts
$35.00
Oil filter cap o-ring

STEPS

1. **Warm the EcoBoost and park level - Warm the Raptor's 3.5L EcoBoost V6 for 2-3 minutes,** then park on level ground, shift into Park, and set the parking brake. The Raptor's generous ground clearance provides drain plug access without lifting. Shut the engine off before going...
2. **Locate the drain plug and cartridge housing - Find the 15mm drain plug on the composite** oil pan under the 3.5L EcoBoost. The cartridge filter housing's plastic cap sits on top of the engine, driver side, accessible from above. Place a drain pan under the plug before loosening.
3. **Drain the engine oil - Remove the 15mm plug with a socket, finishing by hand and pulling** it clear as oil flows. Let the 6-quart sump drain completely to a slow drip. Inspect the plug and its o-ring for damage while it drains.
4. **Open the cartridge filter housing - Use the filter cap socket to loosen the plastic cap** counterclockwise from above. Lift the cap out with the old cartridge, letting it drain into the pan. Remove the old o-ring from the cap groove and wipe the cap clean.
5. **Install the new element and o-ring - Fit the new o-ring, lightly oiled, into the cap** groove and snap the cartridge onto the cap. Thread the cap on by hand, then snug to the marked torque (typically 25 Nm; overtightening cracks plastic).
6. **Reinstall the drain plug - Reinstall the drain plug by hand, then snug it with the 15mm** socket; the composite pan threads demand a gentle touch, not brute force. Wipe the pan and filter housing area clean. Double-check both are secure before adding oil.
7. **Refill with 6 quarts of 5W-30 synthetic - Pour 6 quarts of 5W-30 full synthetic through** the fill cap on the passenger-side valve cover. This turbocharged EcoBoost depends on the correct oil for its turbos and timing chain, do not use a heavier weight. Reinstall the fill cap.
8. **Check for leaks and reset the monitor - Start the engine, confirm oil pressure builds** immediately, and check for leaks at the drain plug and filter housing. Shut off, wait a minute, and verify the dipstick level. Reset the oil life monitor in the cluster settings.

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