



TECHNICAL SERVICE BULLETIN

3.5L EcoBoost - Excessive Oil Consumption With Or Without DTC P0365/P0369 - Built On Or Before 1-Apr-2019

19-2232

23 July 2019

Model:

Ford 2017-2019 F-150
2018-2019 Expedition
Lincoln 2018-2019 Navigator

Issue: Some 2017-2019 F-150 and 2018-2019 Expedition/Navigator vehicles built on or before 1-Apr-2019 and equipped with a 3.5L EcoBoost engine may exhibit excessive oil consumption with no visible oil leaks with or without diagnostic trouble code (DTC) P0365 and/or P0369. This may be due to a concern with the positive crankcase ventilation (PCV) system. To correct the condition, follow the Service Procedure steps to verify the condition and replace the valve covers.

Action: Follow the Service Procedure steps to correct the condition on vehicles that meet all of the following criteria:

- 2017-2019 F-150 or 2018-2019 Expedition/Navigator
- 3.5L EcoBoost engine
- Built on or before 1-Apr-2019
- Customer concern of excessive oil consumption

Parts

Part Number	Description	Quantity
HL3Z-9H486-A	Intake Gaskets	1
HL3Z-6582-E	Left Valve Cover	1
HL3Z-6582-C	Right Valve Cover	1
HL3Z-9J323-C	High Pressure Fuel Pump To Fuel Rail Tube	1
W503280-S437	Fuel Tube Retaining Bolt	1
W503275-S437	Fuel Tube Retaining Bolt	1
W714498-S900	High Pressure Pump Retaining Bolts	1
AA5Z-9E583-A	High Pressure Pump O-ring	1
HL3Z-9417-A	High Pressure Pump Plate Gasket	1
BL3Z-9374-A	High Pressure Pump Plate O-ring Gasket	2
AA5Z-6714-A	Oil Filter	1
XO-5W30-Q1SP	Motorcraft® SAE 5W-30 Premium Synthetic Blend Motor Oil (All Markets Except Canada)	6
CXO-5W30-LSP6	Motorcraft® SAE 5W-30 Super Premium Motor Oil (Canada Only)	6
ZC-31-B	Motorcraft® Metal Surface Prep Wipes	1

ZC-30-A	Motorcraft® Silicone Gasket Remover	1
TA-357	Motorcraft® High Performance Engine RTV Silicone	1

Warranty Status: Eligible Under Provisions Of New Vehicle Limited Warranty Coverage Warranty/ESP coverage limits/policies/prior approvals are not altered by a TSB. Warranty/ESP coverage limits are determined by the identified causal part and verified using the OASIS part coverage tool.

Labor Times

Description	Operation No.	Time
2017-2019 F-150, 2018-2019 Expedition/Navigator 3.5L EcoBoost: Visual Inspection For Oil Leaks, Change The Engine Oil And Filter, And Mark The Oil Level Stick Following The Service Procedure Includes Time To Check And Record Engine Oil Level On Return Visits (Do Not Use With Any Labor Operations Outside Of This Article)	192232A	0.8 Hrs.
2017-2019 F-150, 2018-2019 Expedition/Navigator 3.5L EcoBoost: Replace Both Valve Covers (Can Be Claimed With Operation A)	192232B	4.2 Hrs.
2017-2019 F-150 Raptor 3.5L EcoBoost: Visual Inspection For Oil Leaks, Change The Engine Oil And Filter, And Mark The Oil Level Stick Following The Service Procedure Includes Time To Check And Record Engine Oil Level On Return Visits (Do Not Use With Any Labor Operations Outside Of This Article)	192232C	1.0 Hrs.
2017-2019 F-150 Raptor 3.5L EcoBoost: Replace Both Valve Covers (Can Be Claimed With Operation C)	192232D	4.4 Hrs.

Repair/Claim Coding

Causal Part:	6582
Condition Code:	42

Service Procedure

1. Visually inspect for engine oil leaks. Are any visible leaks present?

- (1). Yes - this article does not apply. Refer to the Workshop Manual (WSM), Section 303-01.
- (2). No - proceed to Step 2.

2. Drain the engine oil. Remove and replace the oil filter.

3. Fill the engine with 4.7L (5 quarts) which is 1L (1 quart) less than the specified fill level.

NOTE: Make sure the vehicle is positioned on a level surface.

4. Run the engine for 3 minutes if hot or 10 minutes if cold. Turn off the engine. Allow for a minimum 15 minute drain back period and record the oil level shown on the oil level indicator by placing a mark on the backside of the oil level indicator.

5. Add the final 1L (1 quart) to complete the normal oil fill. Restart the engine and allow it to idle for 2 minutes. Turn off the engine.

6. After a 15 minute drain back period, record the location of the oil level by placing a mark on the oil level indicator at the new oil level location.

NOTE: Do not use the factory oil level indicator markings for the oil consumption test. Use only the markings applied to the oil level indicator in Steps 4 and 6.

7. Explain to the customer the factory-calibrated marks on the oil level indicator are where the oil should fall after an oil change with the specified fill amount. Explain this may vary between MIN-MAX or the upper and lower holes on the oil level indicator.

8. Record the vehicle mileage.

9. Advise the customer that oil level indicator readings must be taken every 320 km (200 mi) or weekly, using the revised marks as drawn on the oil level indicator. Remind the customer the engine needs a minimum 15 minute drain back, the vehicle must be placed on a level surface for an accurate reading and the oil level indicator must be firmly seated in the tube prior to taking the reading.
10. When the subsequent indicator readings demonstrate a 1 full liter (1 quart) has been used, record the vehicle mileage. Consider the drive cycle the vehicle has been operated under when making this calculation. It may be necessary to have the customer bring the vehicle in for a periodic oil level indicator reading to closely monitor oil usage.
 - (1). If the vehicle has traveled at least 4,800 km (3,000 mi) and oil consumption has not met or exceeded 1L (1 quart), the vehicle is operating normally and no repairs should be performed.

NOTE: Use only the marks applied to the oil level indicator during Steps 4 and 6 for oil consumption measurements. This is a more precise measurement that eliminates any variability in the markings on the factory oil level indicator.

11. Measure the distance between the mark made in Step 6 and the current oil level on the oil level indicator. Record this measurement in millimeters, the current vehicle mileage obtained in Step 10, and the beginning mileage recorded in Step 8 on the repair order.
12. Does the oil consumption measured exceed 1L (1 quart) in 4,800 km (3,000 mi) or less?
 - (1). Yes - replace both valve covers. Refer to the WSM, Section 303-01
 - (2). No - vehicle is operating normally, no further repairs are necessary. Repair is complete.

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NOTE: The information in Technical Service Bulletins is intended for use by trained, professional technicians with the knowledge, tools, and equipment to do the job properly and safely. It informs these technicians of conditions that may occur on some vehicles, or provides information that could assist in proper vehicle service. The procedures should not be performed by "do-it-yourselfers". Do not assume that a condition described affects your car or truck. Contact a Ford or Lincoln dealership to determine whether the Bulletin applies to your vehicle. Warranty Policy and Extended Service Plan documentation determine Warranty and/or Extended Service Plan coverage unless stated otherwise in the TSB article. The information in this Technical Service Bulletin (TSB) was current at the time of printing. Ford Motor Company reserves the right to supersede this information with updates. The most recent information is available through Ford Motor Company's on-line technical resources.