



# TECHNICAL SERVICE BULLETIN

## 2.7L EcoBoost - Oil Pan Leaking, Original Replacement Pan Not Available

**24-2098**

28 March  
2024

This bulletin supersedes 23-2330. Reason for update: revised part list

**Model:**

|                                |                       |
|--------------------------------|-----------------------|
| <b>Ford</b><br>2015-2017 F-150 | Engine: 2.7L EcoBoost |
|--------------------------------|-----------------------|

**Markets:** Published by Ford North America

**Issue:** Some 2015-2017 F-150 vehicles equipped with a 2.7L EcoBoost engine may exhibit an oil leak from the oil pan RTV seal. This may be due to various concerns with the oil pan. To correct the condition, follow the Service Procedure to replace the oil pan with the later style oil pan.

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

- 2015-2017 F-150
- 2.7L EcoBoost engine
- Oil leak from the oil pan RTV seal

**Parts**

| Service Part Number | Claim Quantity | Package Order Quantity | Number in Package | Description   |
|---------------------|----------------|------------------------|-------------------|---|
| JT4Z-6675-E         | 1              | 1                      | 1                 | Engine Oil Pan  |
| FT4Z-6582-F         | 1              | 1                      | 1                 | Left Valve Cover  |
| FT4Z-6582-G         | 1              | 1                      | 1                 | Right Valve Cover   |
| 1X4Z-9E936-AA       | 1              | 1                      | 1                 | Throttle Body Gasket  |
| W520113-S440        | 4              | 1                      | 4                 | Stabilizer Bar Bracket Nuts   |
| W715798-S437        | 1              | 1                      | 4                 | Transmission Fluid Cooler Tube Bracket Stud Bolt                            |
| 7L1Z-7J227-A        | 4              | 2                      | 2                 | Transmission Fluid Cooler Tube O-Rings                                      |
| FT4Z-6626-A         | 1              | 1                      | 1                 | Oil Pump Gasket   |
| FT4Z-6731-A         | 1              | 1                      | 1                 | Oil Filter  |
| FT4Z-6840-B         | 2              | 1                      | 2                 | Lower Oil Filter Gasket   |
| FT4Z-6840-C         | 1              | 1                      | 1                 | Upper Oil Filter Gasket   |
| W712723-S441        | 2              | 1                      | 4                 | Front Axle Mounting Nuts  |
| W716700-S442        | 1              | 1                      | 4                 | Front Axle Mounting Nuts  |
| W712724-S439        | 2              | 1                      | 4                 | Front Axle Mounting Bolts   |
| W712743-S439        | 1              | 1                      | 4                 | Front Axle Upper Mounting Bolt  |
| W716530-S440        | 2              | 1                      | 4                 | Right Engine Mount Nut  |
| W715211-S439        | 1              | 1                      | 4                 | Left Engine Mount Bolt  |
| XO-5W30-Q1SP        | As Needed      | As Needed              |                   | Motorcraft® SAE 5W-30 Synthetic Blend Motor Oil (All Markets Except Canada) |
| CXO-5W30-LSP6       | As Needed      | As Needed              |                   | Motorcraft® SAE 5W-30 Super Premium Motor Oil (Canada Only)                 |

|          |           |           |  |  |
|----------|-----------|-----------|--|--|
| VC-13-G  | As Needed | As Needed |  | Motorcraft® Yellow Concentrated Antifreeze/Coolant (All Markets Except Canada) |
| CVC-13-G | As Needed | As Needed |  | Motorcraft® Yellow Concentrated Antifreeze/Coolant (Canada Only)               |

### Parts - Parts To Inspect And Replace Only If Necessary

| Service Part Number | Claim Quantity                 | Package Order Quantity | Number in Package | Description                           |
|---------------------|--------------------------------|------------------------|-------------------|---------------------------------------|
| W718748-S450B       | Only If Necessary (2 Possible) | Only If Necessary      | 4                 | Engine Appearance Cover Mounting Stud |

**Claim Quantity** refers to the total number of individual pieces required to repair the vehicle.

**Package Order Quantity** refers to the amount of the service part number package(s) required to repair the vehicle.

**Number In Package** refers to the number of individual pieces included in a service part number package.

**As Needed** indicates the amount of the part may vary and/or is not a whole number. Parts can be billed out as non-whole numbers, including less than 1.

**Only If Necessary** indicates the part is not mandatory.

**Warranty Status:** Eligible under provisions of New Vehicle Limited Warranty (NVLW)/Service Part Warranty (SPW)/Special Service Part (SSP)/Extended Service Plan (ESP) coverage. Limits/policies/prior approvals are not altered by a TSB. NVLW/SPW/SSP/ESP coverage limits are determined by the identified causal part and verified using the OASIS part coverage tool. For repairs covered by the NVLW, completion of the procedure outlined in this TSB does not require obtaining Prior Approval or completion of a Cost Cap.

### Labor Times

| Description  | Operation No. | Time     |
|--|---------------|----------|
| 2015-2017 F-150 4X2 2.7L EcoBoost: Inspect The Valve Covers (Pass) Replace The Oil Pan (Do Not Use With Any Other Labor Operations)                      | 242098A       | 3.2 Hrs. |
| 2015-2017 F-150 4X2 2.7L EcoBoost: Inspect The Valve Covers (Fail) Replace The Valve Covers And The Oil Pan (Do Not Use With Any Other Labor Operations) | 242098B       | 6.7 Hrs. |
| 2015-2017 F-150 4X4 2.7L EcoBoost: Inspect The Valve Covers (Pass) Replace The Oil Pan (Do Not Use With Any Other Labor Operations)                      | 242098C       | 4.1 Hrs. |
| 2015-2017 F-150 4X4 2.7L EcoBoost: Inspect The Valve Covers (Fail) Replace The Valve Covers And The Oil Pan (Do Not Use With Any Other Labor Operations) | 242098D       | 7.6 Hrs. |

### Repair/Claim Coding

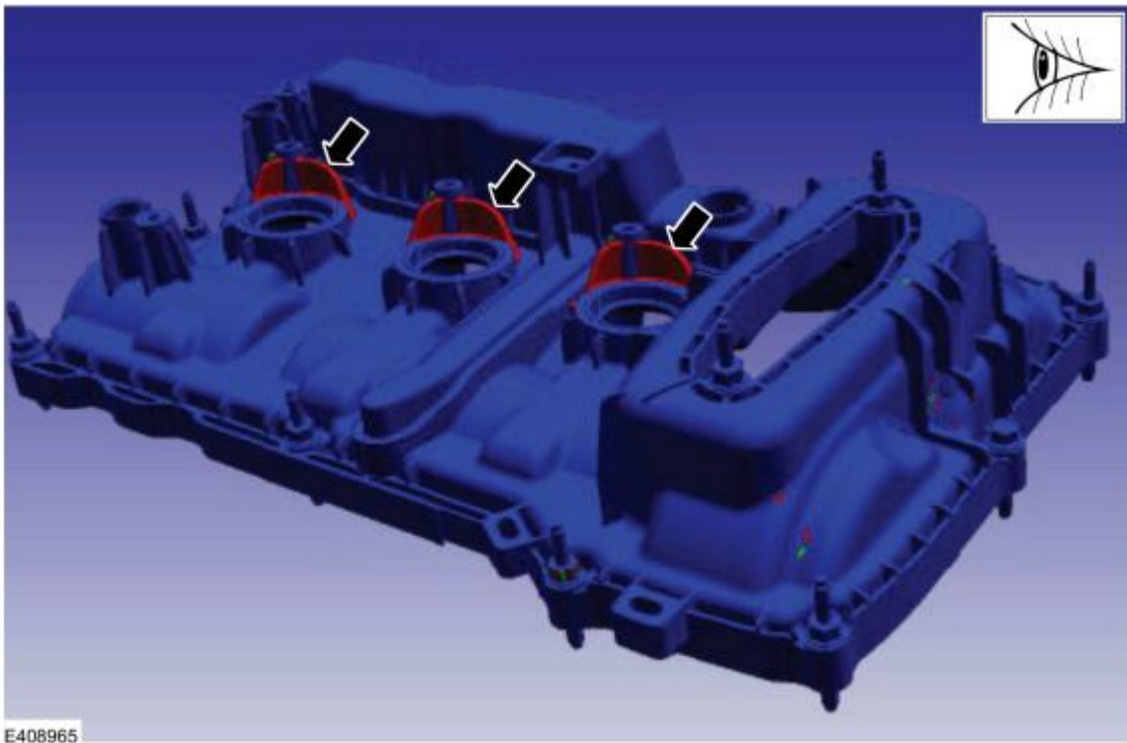
|                 |      |
|-----------------|------|
| Causal Part:    | 6675 |
| Condition Code: | D8   |

### Service Procedure

**NOTE:** There are internal PCV system check valves built into some oil pans and valve covers. Follow the Service Procedure to make sure replacement parts are properly chosen to maintain an operable PCV system.

1. Inspect the valve cover design around the ignition coils. Does the coil location have the extended plastic protective ribbing as shown in red? (Figure 1)

Figure 1



(1). Yes - proceed to Step 3.

(2). No - proceed to Step 2.

2. Replace the valve covers. Refer to the procedures in the 2015-2017 F-150 WSM, Section 303-01A, Removal and Installation > Valve Cover LH and Valve Cover RH.

**NOTE: Valve covers and related components are eligible under Service Part Warranty (SPW) or Service Part New Vehicle (SPNV) coverage if the oil pan was previously replaced as the causal part.**

**NOTE: If the vehicle is equipped with an engine appearance cover, replace the engine appearance cover mounting studs.**

3. Replace the oil pan. Refer to the various WSM years as needed.

(1). 2015-2017 F-150 WSM, Section 303-01A, Removal and Installation > Oil Pan, Removal, Steps 1-32.

(2). 2018 F-150 WSM, Section 303-01A, Removal and Installation > Oil Pan, Removal, Steps 31 and 32.

(3). 2018 F-150 WSM, Section 303-01A, Removal and Installation > Oil Pan, Installation, Steps 1-3.

(4). 2015-2017 F-150 WSM, Section 303-01A, Removal and Installation > Oil Pan, Installation, Steps 4-39.

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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.