



TECHNICAL SERVICE BULLETIN

Engine Oil Leak From The Engine Block

26-2116

08 April 2026

This bulletin supersedes 25-2323. Reason for update: update the Service procedure, Parts list, and add a clarification note about Cost Cap and Prior approval process requirement for vehicles under NVLW

Model:

Ford	Engine: 5.0L
2022-2025 F-150	Built on 23-Aug-2022 and through 20-May-2025

Markets: North American markets only

Issue: Some of the vehicles listed in the model statement may exhibit an oil leak from the oil filter adaptor to engine block mounting area. This may be due to block porosity or a block crack just below the oil filter adapter near the main bearing cap outer bolt.

Action: For vehicles that meet all of the criteria in the Issue and Model statements, follow the Service Procedure to inspect the engine block for oil leaks.

Parts

Service Part Number	Claim Quantity	Description
ML3Z-6009-D	1	Engine Short Block Assembly
BR3Z-6A340-A	1	Crankshaft Pulley Bolt And Washer
JR3Z-6065-C	20	Cylinder Head Bolts
W714735-S439	6	Engine Mount Bracket To Engine Bolts
JL3Z-6379-A	8	Flexplate to Crankshaft Bolts
W715211-S439	1	Left Engine Mount Through Bolt
W713244-S439	3	Left Engine Mount To Frame Bolt
7L1Z-4B496-C	2	Front Driveshaft To Pinion Flange Bolt and Washer Assembly
AA5Z-6714-A	1	Engine Oil Filter
ML3Z-6584-B	1	Right Valve Cover Gasket
ML3Z-6584-C	1	Left Valve Cover Gasket
ML3Z-6051-H	1	Right Cylinder Head Gasket
ML3Z-6051-G	1	Left Cylinder Head Gasket
ML3Z-6020-G	1	Right-Front Engine Cover Gasket
ML3Z-6020-H	1	Center-Front Engine Cover Gasket
ML3Z-6020-J	1	Left-Front Engine Cover Gasket
W520514-S440	4	Catalytic Converter To Exhaust Manifold Nuts
W716530-S440	2	RH Engine Mount To Frame Nut
W520113-S440	4	Stabilizer Bar Bracket Nuts
W715618-S437	4	Torque Converter To Flexplate Nuts
ML3Z-6A642-D	1	Oil Cooler Assembly
F1VY-8507-A	1	Coolant Pump O-Ring Seal
JT4Z-9E583-A	1	High Pressure Fuel Pump O-ring Seal
GK2Z-6700-A	1	Front Crankshaft Oil Seal Assembly

ML3Z-9J323-B	1	High Pressure Fuel Pump To Fuel Rail Tube Assembly
ML3Z-9J323-C	1	High Pressure Fuel Rail-to-Fuel Rail Tube Assembly
ML3Z-6584-D	1	Right Camshaft and Carrier Assembly Gasket
ML3Z-6584-E	1	Left Camshaft and Carrier Assembly Gasket
ML3Z-3B478-A	1	Front Driveshaft CV Joint Boot Clamp
ML3Z-3B478-B	1	Rear Driveshaft CV Joint Boot Clamp
BC3Z-8590-F	1	Lower Radiator to Radiator Hose Seal
BR3Z-8255-A	1	Thermostat Housing Seal
JR3Z-6701-A	1	Rear Crankshaft Seal
W714870-S430	16	Exhaust Manifold Nut
FR3Z-9448-A	2	Exhaust Manifold Gasket
W714869-S901	16	Exhaust Manifold Stud
W702600-S439	1	Steering Shaft Bolt
W718644-S439	6	Frame to Cab Mounting Bolt
DL3Z-19B596-B	1	A/C Compressor Tube O-Ring and Gasket
DS7Z-19B596-A	1	A/C Compressor Seal

Parts - Parts To Inspect And Replace Only If Necessary

Service Part Number	Claim Quantity	Description
JR3Z-12A227-A	Only If Necessary (Up To 1)	Crankshaft Position Sensor Ring
JL3Z-9439-A	Only If Necessary (Up To 8)	Intake Manifold Gasket
AA5Z-9C587-A	Only If Necessary (Up To 1)	Fuel Pump Assembly Tappet
ML3Z-6500-A	Only If Necessary (Up To 16)	Tappet Assembly-VDE Rocker Arm
ML3Z-6500-B	Only If Necessary (Up To 16)	Tappet Assembly-Standard Rocker Arm
ML3Z-6564-C	Only If Necessary (Up To 16)	VDE Rocker Arm Assembly
ML3Z-6564-D	Only If Necessary (Up To 16)	Standard Rocker Arm Assembly
ML3Z-6564-F	Only If Necessary (Up To 16)	Standard Rocker Arm Assembly
ML3Z-6C535-B	Only If Necessary (Up To 6)	Spark Plug Seals
ML3Z-6C535-A	Only If Necessary (Up To 4)	VCT Seals
JR3Z-9276-B	Only If Necessary (Up To 1)	Gasket

Parts - Chemicals And Lubricants

Service Part Number	Claim Quantity	Description	Note
VC-13-G	As Needed	Motorcraft® Yellow Concentrated Antifreeze/Coolant	All Markets Except Canada
CVC-13-G	As Needed	Motorcraft® Yellow Concentrated Antifreeze/Coolant	Canada Only
VC-13DL-G	As Needed	Motorcraft® Yellow Prediluted Antifreeze/Coolant	All Markets Except Canada
CVC-13DL-G	As Needed	Motorcraft® Yellow Prediluted Antifreeze/Coolant	Canada Only
XO-5W30-Q1SP	As Needed	Motorcraft® SAE 5W-30 Synthetic Blend Motor Oil	All Markets Except Canada
CXO-5W30-LSP6	As Needed	Motorcraft® SAE 5W-30 Super Premium Motor Oil	Canada Only
PM-20	As Needed	Motorcraft® DOT 4 LV High Performance Motor Vehicle Brake Fluid	All Markets

NOTE: All other parts instructed by the WSM to inspect and replace as necessary should be claimed outside of this article.

Claim Quantity refers to the total number of individual pieces required to repair the vehicle. This may differ from the number of service part number packages due to the unit of issue (UOI).

As Needed indicates the part is necessary but 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. Refer to the Service Procedure to determine the inspection/inclusion criteria.

Warranty Status: Warranty coverage limits and policies are not altered by a TSB. Warranty coverage limits are determined by the identified causal part.

Labor Times

Description	Operation No.	Time
2022-2025 F-150 4X2 5.0L: Inspect And Replace The Engine Short Block Following The Service Procedure (Do Not Use With Any Other Labor Operations)	MT262116A	Actual Time Up To 18.3 Hrs.
2022-2025 F-150 4X4 5.0L: Inspect And Replace The Engine Short Block Following The Service Procedure (Do Not Use With Any Other Labor Operations)	MT262116B	Actual Time Up To 18.8 Hrs.

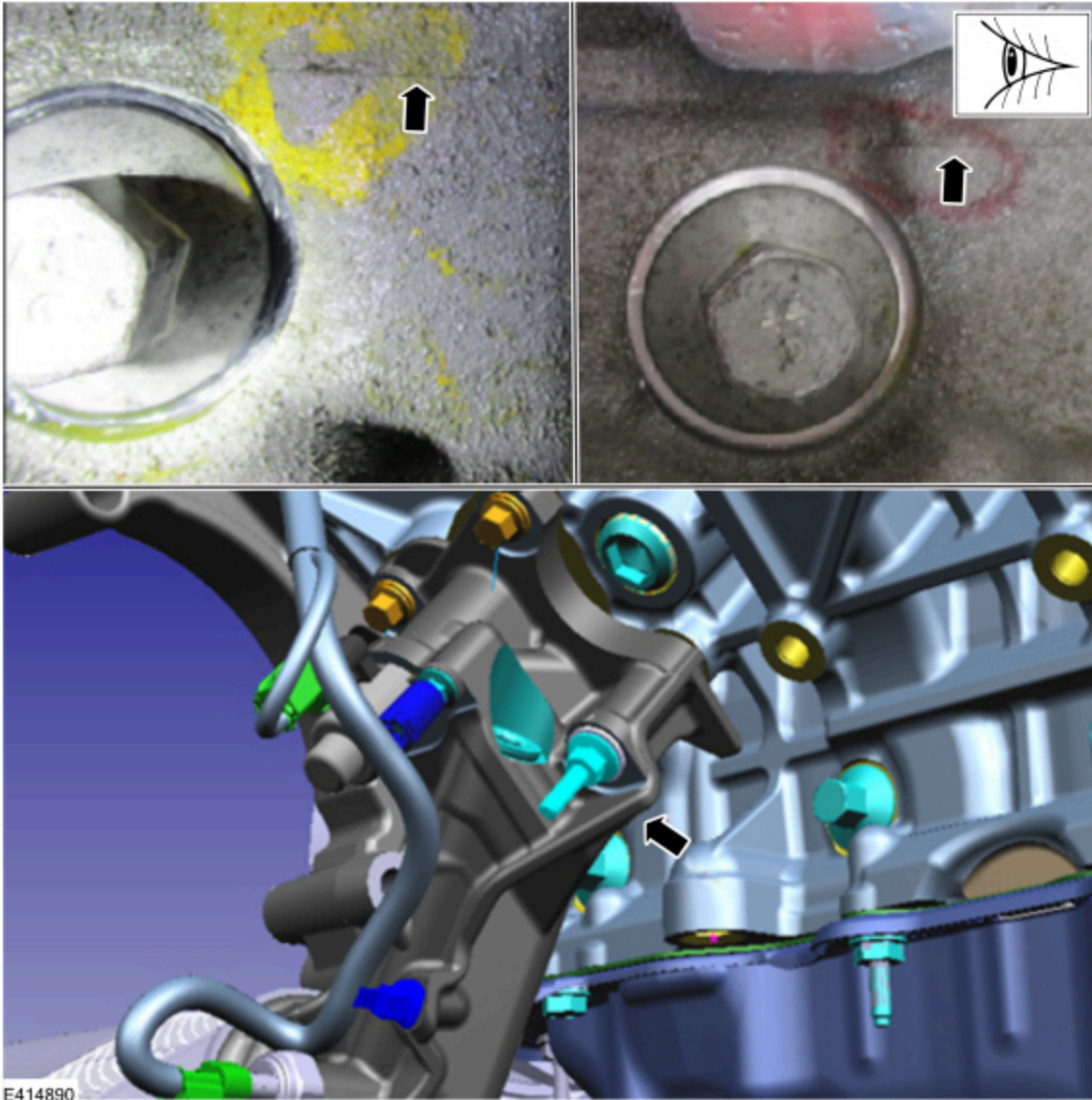
Repair/Claim Coding

Causal Part:	6009
Condition Code:	D1

Service Procedure

1. Inspect the engine block just below the oil filter adaptor mounting area near the main bearing cap outer bolt. Does the location show signs of oil leaking at the engine block? (Figure 1)

Figure 1



(1). Yes - proceed to Step 2.

(2). No - this article does not apply. Refer to the WSM, Section 300-00 > General Procedures > Oil Leak Inspection for normal diagnostics.

2. Remove the engine. Refer to the WSM, Section 303-01 > Removal.

3. Replace the engine short block. Refer to the WSM, Section 303-01 > Disassembly > Engine.

(1). For U.S and Canadian vehicles which are LTIS program eligible, the dealership has the option to continue with this TSB repair or replace the long block assembly under LTIS program. Those repairs outside of LTIS eligibility and still under New Vehicle Limited Warranty (NVLW), the completion of the procedure outlined in this TSB does not require completion of a Cost Cap or obtaining Prior Approval.

4. Install the engine. Refer to the WSM, Section 303-01 > Installation.

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