

**2.7L GTDI - OIL CONSUMPTION WITH DTC P0524 AND/OR P06DD,
ROUGH IDLE, MISFIRE AND/OR WHITE OR BLUE EXHAUST SMOKE -
BUILT ON 1-APR-2016 AND THROUGH 1-OCT-2016**

TSB 17-0007

FORD:

2016 F-150

ISSUE

Some 2016 F-150 vehicles equipped with a 2.7L gasoline turbocharged direct injection (GTDI) engine and built on 1-Apr-2016 and through 1-Oct-2016 may exhibit white or blue smoke from the exhaust, rough idle in neutral or park at normal operating temperature or after a hot restart. The vehicle may also exhibit diagnostic trouble code (DTC) P0300, P0301, P0302, P0303, P0304, P0305, P0306, P0316, P0524 and/or P06DD with the excessive oil consumption. Oil consumption may be 1 Liter (1 quart) in less than 4,800 km (3,000 miles).

ACTION

Follow the Service Procedure steps to correct the condition.

SERVICE PROCEDURE

1. Connect the Ford Integrated Diagnostic System (IDS) service tool or equivalent scan tool to the data link connector (DLC). Check for DTC P0524 and/or P06DD with any misfire codes stored in the powertrain control module (PCM) memory?
 - a. Yes - replace the engine long block assembly. Refer to Workshop Manual (WSM), Section 303-01.
 - b. No - replace the cylinder heads. Refer to WSM, Section 303-01.

PART NUMBER	PART NAME
	Replacing Engine Assembly - Long Block - Unique Parts
FL3Z-6006-F	Engine Assembly - Long Block
7L1Z-4B496-C	Bolt - Front CV to Pinion (2 Required)
7L1Z-4B496-D	Bolt - Rear CV to Pinion (3 Required)
W520111-S440	Nut - Transmission Cooler Line Bracket
W520113-S440	Nut - Sway Bar Mount (4 Required)
W520514-S440	Nut - Catalytic Converter (4 Required)
W713244-S439	Bolt - Engine Mount to Frame
W714689-S437	Nut - Torque Converter (1 Package of 4 Required)
W714717-S439	Bolt - Y pipe To Catalytic Converter (2 Required)
W715211-S439	Bolt - Left Side Engine Mount
W716530-S440	Nut And Washer Assembly - Right Side Engine Mount
N808684-S101	Steering Shaft Bolt
	Replacing Engine Cylinder Head Assembly - Unique Parts
FL3Z-6049-J	Left Side Cylinder Head Assembly
FL3Z-6049-K	Right Side Cylinder Head Assembly
FL3Z-6079-D	Kit - Cylinder Head Gasket
FL3Z-6675-B	Engine Oil Pan Assembly

NOTE: The information contained 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, Lincoln, or Mercury 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.

PART NUMBER	PART NAME
CP9Z-6279-C	Bolt - Variable Camshaft Timing
	Parts Common To Both Repairs
W714870-S430F	Nut - Turbo Mount (4 Required)
W716117-S437	Bolt - Turbo Mounting (2 Required)
W716383-S437	Stud - Turbo Mounting
BL3Z-6C683-A	Filter Assembly
DS7Z-19B596-A	Kit Assembly A/C - O-rings)
FL3Z-5C226-A	Exhaust Gasket (2 Required)
FT4Z-6A340-A	Bolt - Crank Pulley
FT4Z-9J323-A	High Pressure Fuel Rail
FT4Z-9J323-B	High Pressure Fuel Rail
FT4Z-8507-A	Gasket - Water Pump
FT4Z-12A648-B	Sensor - Cylinder Head Temperature
FT4Z-6731-A	Filter Engine Oil Assembly
CYFS-092-YPFC	Spark Plug (6 Required)
CU7Z-19B508-A	Flange Sealant
PM-4-A	Motorcraft® Metal Brake Parts Cleaner
TA-24-B	Motorcraft® Thread Sealant with PTFE
YN-12-D	Motorcraft® PAG Refrigerant Compressor Oil
XL-2	Motorcraft® High Temperature Nickel Anti-Seize Lubricant
TA-357	Motorcraft® High Performance Engine RTV Silicone
ZC-30-A	Motorcraft® Silicone Gasket Remover
ZC-31-B	Motorcraft® Metal Surface Prep Wipes
VC-3-B	Motorcraft® Orange Concentrated Antifreeze/Coolant
XO-5W30-QSP	Motorcraft® SAE 5W-30 Premium Synthetic Blend Motor Oil

OPERATION	DESCRIPTION	TIME
170007A	2016 F-150 4X2 2.7L GTDI: Retrieve DTCs And Replace Both (2) Cylinder Heads (Do Not Use With Any Other Labor Operations)	20.9 Hrs.
170007B	2016 F-150 4X2 2.7L GTDI: Retrieve DTCs And Replace Long Block Assembly (Do Not Use With Any Other Labor Operations)	16.0 Hrs.
170007C	2016 F-150 4X4 2.7L GTDI: Retrieve DTCs And Replace Both (2) Cylinder Heads (Do Not Use With Any Other Labor Operations)	21.3 Hrs.
170007D	2016 F-150 4X4 2.7L GTDI: Retrieve DTCs And Replace Long Block Assembly (Do Not Use With Any Other Labor Operations)	16.4 Hrs.

WARRANTY STATUS:

Eligible Under Provisions Of New Vehicle Limited Warranty Coverage And Emissions 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.

TSB 17-0007 (Continued)

DEALER CODING

BASIC PART NO.	CONDITION CODE
6049	42