



TECHNICAL SERVICE BULLETIN

Vehicles Equipped With A 2.0L (Panther) Engine – Rough Idle Followed By A Delayed Throttle Response On Take Off

21-2279

21
September
2021

Model:

Ford 2018-2021 Everest	Engine: 2.0L CR TC DSL PANTHER C (EN YN)
2018-2021 Ranger	Engine: 2.0L CR TC DSL PANTHER C (EN YN)

Summary

Issue: Some 2018-2021 Ranger and Everest vehicles equipped with a 2.0L (Panther) engine may present with concerns of a rough idle followed by a delayed throttle response on take off. One potential cause for this concern is fuel contamination.

NOTE: Repairs required due to the use of improper fluids and fuels are not covered by the New Vehicle Warranty. See Warranty and Policy Manual and Customer Information Guide for details.

NOTE: The most common sources of contaminated fuel are: • Auxiliary vehicle mounted tanks • Local storage tanks • Other infrequently used fuel sources • Refuelling errors (i.e. Gasoline introduced into the fuel tank). The best action that can be taken to avoid concerns with the fuel system is to ensure vehicle is only fuelled from sources with known quality diesel fuels verified to be free from water and other contaminants.

Action: Should a vehicle present with this concern, technicians are advised to refer to the Service Procedure below.

Parts

Service Part Number	Package Order Quantity	Description
JB3Z 9E527 A	4	Fuel Injector
GK2Q 9L535 BA	2	Fuel Injector Hold Down Clamp
GK2Q 9L535 AA	2	Fuel Injector Hold Down Clamp
HG9Q 9C993 CA	1	Fuel Injector Supply Tube
HG9Q 9C993 BA	2	Fuel Injector Supply Tube
HG9Q 9C993 AA	1	Fuel Injector Supply Tube
GK2Q 9T506 AA	4	Bolt
HG9Q 9J323 AA	1	Fuel Rail Supply Tube
HG9Z 9A543 A	1	Fuel Injection Pump
W711679S437	2	Fuel Injection Pump Bolts
JB3Z 6095 A	1	Fuel Injection Pump Access Cover
W718272 S442	3	Fuel Injection Pump Cover Bolts
W718254 S442	1	Fuel Injection Pump Cover Stud
W718124 S452	1	Fuel Injection Pump Gear Bolt
JB3Z 8620 B	1	Coolant Pump Belt
W520114 S437	1	LH Engine Mount Top Nut
W719557 S439	1	LH Engine Mount Bottom Bolt
W520115 S440	1	RH Engine Mount Bottom Nut

Labor Times

Description	Operation No.	Time

Engine Performance Diagnostics	212279A	0.7 Hrs.
Fuel Contamination - Check	212279B	0.2 Hrs.
Remove Fuel Tank and its sender unit and replace fuel filter (Includes cleaning and flushing)	212279C	1.3 Hrs.
Replace fuel injector and Fuel injector supply tubes, replace fuel injection pump and Fuel Rail Supply Tube	212279D	7.5 Hrs.

Repair/Claim Coding

Causal Part:	JB3Z 9E527 A
Condition Code:	49

PDR Table

PDR Code	Description	Time
TSB212279	Replace Fuel System Components (Includes Diagnostic and Fuel Contamination Check)	9.7 Hrs.

Service Procedure

1. Connect the Ford Diagnostic and Repair System (FDRS) to the vehicle and select and monitor the following Parameter Identifications (PID's) whilst replicating the concern.

- EXH_MODE_ACTIVE
- ECT
- ENG_TQ
- RPM
- RPM_DSD
- VSS
- APP

Do the above PIDs confirm the vehicle is in Regen mode, engine fully warm at operating temperature, transmission in DRIVE, vehicle stationary, Accelerator Pedal not pressed, check engine torque is above 100Nm and engine idle speed is below the 900 RPM setpoint?

(1). No – this article does not apply, refer to the Workshop Manual (WSM) for normal diagnosis/repair.

(2). Yes – proceed to Step 2.

2. Inspect the fuel quality following the “**Fuel Quality Inspection**” procedure outlined in GSB 21AP/020.

Is there any evidence of the following external contamination:

- Cloudy fuel indicating water particles
- Bacterial growth typically noted at the bottom of the fuel sample
- Particle contamination i.e. sand, rust, dirt, etc.

(1). No – proceed to Step 3.

(2). Yes – advise the customer repairs required due to the use of improper fluids/fuels and or external contamination are not covered by the Ford New Vehicle Warranty. See Warranty and Policy Manual and Customer Information Guide for details.

NOTE: Fuel contamination is not a warrantable defect unless the source of contamination is as a result of a warrantable concern. The repair steps in the remainder of the TSB should be followed to remedy the concern but ensure the customer is aware that it will be a retail repair. Ford suggests that the customer talk to their vehicle insurer in case their Policy covers fuel contamination.

3. Remove fuel tank and completely drain and clean the fuel tank out. The only liquid to be used to clean the tank is clean diesel fuel. For additional information, refer to WSM Section 310-01.

NOTE: Dispose of contaminated fuel in accordance with local laws and regulations.

4. Remove and drain the fuel pump and sender unit. For additional information, refer to WSM Section 310-01.

NOTE: Dispose of contaminated fuel in accordance with local laws and regulations.

5. Install the fuel pump and sender unit. For additional information, refer to WSM Section 310-01.
6. Install the fuel tank. For additional information, refer to WSM Section 310-01.
7. Fill the fuel tank with fresh, clean, good quality diesel fuel.
8. Using a suitable container, drain the fuel filter of any residual liquids. For additional information, refer to WSM Section 310-00.

NOTE: Dispose of contaminated fuel in accordance with local laws and regulations.

9. Disconnect the fuel return line by the fuel tank.

NOTE: Dispose of contaminated fuel in accordance with local laws and regulations.

10. Cycle the ignition to "RUN" to activate the low-pressure fuel pump to flush the lines and allow the fuel pump to run for 3 minutes or until approximately 12 litres of fuel has been flushed through the system.

NOTE: Dispose of contaminated fuel in accordance with local laws and regulations.

11. Connect the fuel return line by the fuel tank.
12. Replace the fuel filter element. For additional information, refer to WSM Section 301-001.
13. After the flush is completed, replace the following high pressure fuel system components:
 - (1). Fuel injection pump. For additional information, refer to WSM Section 303-04.
 - (2). Fuel rail supply tube. For additional information, refer to WSM Section 303-04.
 - (3). Fuel injector supply tubes. For additional information, refer to WSM Section 303-04.
 - (4). Fuel injectors. For additional information, refer to WSM Section 303-04.

14. Connect the Ford Diagnostic and Repair System (FDRS) to the vehicle and select and monitor the following Parameter Identifications (PID's) whilst replicating the concern.

- EXH_MODE_ACTIVE
- ECT
- ENG_TQ
- RPM
- RPM_DSD
- VSS
- APP

With the vehicle stationary, engine fully warm, in Regen mode, transmission in DRIVE, and accelerator pedal not pressed, check engine torque is below 100Nm and engine idle speed is meeting the 900 RPM setpoint.

If the issue is no longer present, perform a Service Regen.

15. Road test the vehicle and ensure correct operation.