

# Low Fuel Pressure

## Symptoms: Low Fuel Pressure to Engine

### General Information

The Fuel Delivery System (FDS) supplies fuel to the engine. The engine requires a minimum fuel pressure to operate correctly. When the pressure is low, but the least severe level, the engine will not log a fault code, but a dash message should be displayed similar to “Fuel Pressure Too Low-Safely Pull Over and Stop Engine Immediately,” and also put the engine into a slight derate.

If the pressure becomes even lower and reaches the most severe level, an engine fault code will be associated with the condition as well. If it reaches this level, there will be fault code snapshot data available to determine what the FDS pressure was at the time of the fault as well. The minimum pressure the FDS can supply full engine load demand is 250 psi. If the pressure is lower than this, the FDS needs to be filled with fuel and see if the condition continues.

### Condition

- Message on the vehicle dash that says something similar to “Fuel Pressure Too Low-Safely Pull Over and Stop Eng. Immediately.
- Cummins does not log a low-pressure fault code on the current natural gas engine, 6.7N, L9N, 12N,
- May only happen when FDS is at full pressure but goes away as the service pressure decreases.

### Action

- Verify System Pressure is above 250 psi.
- With the engine running at idle, verify the regulated pressure is set correctly for the Service Pressure in the FDS per TSB
- Verify Manual Shut Off Valve, Cylinder Valve, Fuel Delivery System Shutoff Valve, or if equipped Body Valve is fully ON/OPEN  
Verify that the regulator and coolant lines are getting hot to the touch.

### Specification

- 5.5 Bar (80 psi) regulated pressure with inlet pressure of 248 Bar (3600 psi) is common for most engines.
- If pressure is below 5.5 Bar (80 psi) regulated pressure with inlet pressure of 248 Bar (3600 psi) proceed to Linked Solutions Section

### Linked Solutions

- [Fuel System Regulator \(042-022\)](#)

### Repair

- Replace or repair components that were found to be out of specification.

**Validation** Run the engine up to operating temperature and check the regulated pressure accounting for inlet pressure.