

## DIESEL GENERATORS COMMON SPN FAULTS & DEFINITIONS – FOUND IN ACTIVE AND PREVIOUS DTC SCREENS –

### SPN - Suspect Parameter Number

This gives you detail of the issue.

### FMI - Failure Mode Indicator

This explains the severity level.

### SPN 100 - Engine Oil Pressure Error

Oil pressure switch is turned on and engine stalls.

**Common Fix:** Check quantity and quality of oil and replace with fresh correct amount of oil with engine manufactured viscosity. Make sure there are no opens or short to grounds within the wires of the sensor.

### SPN 651-654 & 523523-523524 - Engine Injector Error

Open or short to ground on any or multiple injectors at harness or coil.

**Common Fix:** Identifying effected injector(s) and repair wiring harness or coil as needed.

### SPN 1239 - Fuel Leak / Fuel Pressure Decrease

Rail pressure sensor detects pressure differential upon injection.

**Common Fix:** Verify no fuel leak within the system. Replace fuel filter with new OEM filter and verify diesel is of good quality.

### SPN 1347 - Engine Fuel Pump SCV Error

SCV is either stuck in open position or the circuit has an open or short to ground.

**Common Fix:** Verify any and all wiring for damage and repair wires as needed. If SCV stuck in an open position the Suction Control Valve would have to be replaced.

### SPN 3246 - Exhaust Gas Temperature Sensor Error

PDF outlet temp sensor either too high or had an open or short to ground in sensor or harness.

**Common Fix:** Verify temp reading is higher in sensor area then before sensor with thermometer gun. If sensor has open or short to ground, repair wires as needed.

### SPN 3701 - Diesel Particulate Filter Status Level 3-5

This occurs when the unit has not been able to have a successful regeneration, so the particulate matter accumulation has an excessive amount inside the DPF.

**Common Fix:** An engine manufacturer diagnostic tool/software would have to be used to force a regeneration on the unit's exhaust system.

### FMI - Failure Mode Indicator

This explains the severity level.

0 – Extremely High	10 – Change Abnormal
1 – Extremely Low	11 – Activated
2 – Invalid	12 – Error
3 – Out of Range High	13 – Fault
4 – Out of Range Low	14 – Incorrect Message
5 – High Resistance	15 – Slightly High
6 – Low Resistance	16 – Moderately High
7 – Mismatch	17 – Slightly Low
8 – Signal Missing	18 – Moderately Low
9 – Loss of Communication	19 – Communication Error
	31 – Condition Exists