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Product: INDUSTRIAL ENGINE
 Model: C4.4 INDUSTRIAL ENGINE 444
 Configuration: C4.4 Industrial Engine 44400001-UP

Troubleshooting**C4.4 and C6.6 Industrial Engines and Engines for Caterpillar Built Machines**

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5 Volt Sensor Supply Circuit - Test

SMCS - 1439-038

System Operation Description:

Use this procedure to troubleshoot the system when one of the following diagnostic codes is active or easily repeated:

- 0262-03 5 Volt Sensor DC Power Supply voltage above normal
- 0262-04 5 Volt Sensor DC Power Supply voltage below normal

The following background information is related to this procedure:

The Engine Control Module (ECM) supplies regulated +5 Volts DC to the following sensors:

- Fuel Rail Pressure Sensor through connector P228
- Intake Manifold Pressure Sensor through connector P200
- Engine Oil Pressure Sensor through connector P201
- Analog Throttle Demand Sensors (if equipped) through P1 connector

The supply for the +5 Volt engine pressure sensor is routed from the ECM through the P2 connector to terminal 1 of each pressure sensor connector. The supply voltage is 5.0 ± 0.16 Volts DC. The +5 Volt supply to the Analog Throttle Demand Sensor is routed from the ECM through the P1 connector to the sensor pins "A".

A diagnostic code can be caused by the following conditions:

- A short circuit in the harness
- An open circuit in the harness
- A suspect sensor
- A suspect ECM

Table 1

P2 Pin Connections	