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Welcome: b132tfl

< Product: GENERATOR SET  
Model: G3306B GENERATOR SET RJ2  
Configuration: G3306 Gas Generator Set  
RJ200001-UP

## **Troubleshooting**

### **G3306B Petroleum Generator Set Engines**

**Media Number -UENR3028-01 Publication Date -2014/08/01 Date Updated -2014/08/05**

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## **Troubleshooting Data Sheet**

**SMCS - 0336**

To assist in troubleshooting a gas engine, complete the information in Illustration 1. Be sure to include the units of measurement.

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## TROUBLESHOOTING DATA SHEET

### CUSTOMER INFORMATION:

CUSTOMER	INSTALLATION
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### ENGINE DATA:

ENGINE MODEL	DRIVEN EQUIPMENT
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ENGINE SERIAL NUMBER	APPLICATION
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CAT (ET) SOFTWARE VERSION	FLASH FILE PART NUMBER	ALTITUDE (MFT ABOVE SEA LEVEL)
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SMR	COMPRESSION RATIO	IGNITION TIMING (BTDC/ATDC)
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### ENGINE LUBRICATION DATA:

SERVICE HOURS	BRAND OF ENGINE OIL	TYPE OF ENGINE OIL
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ENGINE OIL TEMP (°C/°F)	ENGINE OIL PRESS (KPA/PSI)	
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### FUEL DATA:

METHANE #	LOW HEAT VALUE (LHV)	GAS SPECIFIC GRAVITY
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FUEL SUPPLY PRESS (KPA/PSI)	FUEL TEMP (°C/°F)	
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### ENGINE OPERATING DATA:

DESIRED ENGINE SPEED (RPM)	ACTUAL ENGINE SPEED (RPM)	ENGINE LOAD
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ENGINE OIL TEMP (IN) (°C/°F)	ENGINE OIL TEMP (OUT) (°C/°F)	AIR INLET RESTRICTION (KPA/PSI)
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DESIRED THROTTLE VALVE POSITION	ACTUAL THROTTLE VALVE POSITION	ENGINE FUEL VALVE POSITION #1
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INTAKE MANIFOLD PRESS (ABS) (KPA/PSIA)	INTAKE MANIFOLD AIR TEMP (°C/°F)	
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ENGINE COOLANT TEMP (°C/°F)	ACTUAL JACKET WATER TEMP (IN) (°C/°F)	ACTUAL JACKET WATER TEMP (OUT) (°C/°F)
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AFTERCOOLER AIR TEMP (IN) (°C/°F)	AFTERCOOLER AIR TEMP (OUT) (°C/°F)	
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### EXHAUST EMISSIONS DATA:

BRAND OF EXHAUST ANALYZER	AMBIENT AIR TEMP (°C/°F)	TEMP PROBE LOCATION
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EXHAUST PRESSURE (KPA/PSI)	EXHAUST TEMP (°C/°F)	EXHAUST O <sub>2</sub> (% WET/DRY)
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EXHAUST NO <sub>x</sub> (PPM)	EXHAUST CO (PPM)	
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ACTUAL AFTERTREATMENT #1 INTAKE OXYGEN SENSOR VOLTAGE (V)	DESIRED AFTERTREATMENT #1 INTAKE OXYGEN SENSOR VOLTAGE (V)
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ACTUAL AFTERTREATMENT #1 OUTLET OXYGEN SENSOR VOLTAGE (V)	DESIRED AFTERTREATMENT #1 OUTLET OXYGEN SENSOR VOLTAGE (V)
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AFTERTREATMENT #1 INTAKE FUEL TRIM PERCENTAGE (%)	AFTERTREATMENT #1 OUTLET FUEL TRIM PERCENTAGE (%)
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AFTERTREATMENT #1 THREE WAY CATALYST CONVERTER INTAKE GAS TEMP (°C/°F)	AFTERTREATMENT #1 THREE WAY CATALYST CONVERTER OUTLET GAS TEMP (°C/°F)
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### COMMENTS:

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Illustration 1

g01954081

Data sheet for troubleshooting

**Report the Service Information**

Be sure to provide good information to Caterpillar after you have successfully repaired the engine. The following topics are recommended for your report:

**Complaint** - Include a description of the customer complaint in the report.

**Cause** - Provide a specific description of the cause of the failure. Include the method that was used in order to diagnose the problem. If diagnostic codes or event codes were generated, include all of the codes and the status of the codes. Indicate your determination of the problem. For example, if you performed a circuit test on the engine, identify the test procedure. For example, a visual inspection revealed the abrasion of a wire in a harness. Be specific: dynamometer testing of the engine produced power below specifications at 1800 rpm due to a faulty ignition transformer.

**Repair** - Explain your repair of the problem. For example, you may have installed a new wiring harness. You may have replaced the ignition transformer per instructions from the factory.

When you provide complete, accurate information Caterpillar is able to provide better service to you and to the customer.