

[Previous Screen](#)

◀ Product: GENERATOR SET  
Model: 3456 GENERATOR SET C4G  
Configuration: 3456 Generator Set C4G00001-UP

## Operation and Maintenance Manual

### 3456 Generator Sets

Media Number -SEBU7829-03

Publication Date -01/03/2006

Date Updated -22/03/2006

i02516958

## Maintenance Interval Schedule - Standby Generator Sets

SMCS - 1000; 7500

Ensure that all safety information, warnings and instructions are read and understood before any operation or any maintenance procedures are performed.

The user is responsible for the performance of maintenance, including all adjustments, the use of proper lubricants, fluids, filters, and the replacement of components due to normal wear and aging. Failure to adhere to proper maintenance intervals and procedures may result in diminished performance of the product and/or accelerated wear of components.

Use mileage, fuel consumption, service hours, or calendar time, WHICHEVER OCCURS FIRST, in order to determine the maintenance intervals. Products that operate in severe operating conditions may require more frequent maintenance.

**Note:** Before each consecutive interval is performed, all maintenance from the previous interval must be performed.

### When Required

Battery or Battery Cable - Disconnect

Ether Starting Aid Cylinder - Replace

Fuel System - Prime

Fuel System Primary Filter/Water Separator - Drain

Generator Load - Check

Generator Set - Test

Rotating Rectifier - Test

### Every Week

Automatic Start/Stop - Inspect

Battery Charger - Check

Battery Electrolyte Level - Check

Bearing Temperature - Measure/Record

Cooling System Coolant Level - Check  
Electrical Connections - Check  
Engine Air Cleaner Service Indicator - Inspect  
Engine Oil Level - Check  
Fuel Tank Water and Sediment - Drain  
Generator - Inspect  
Generator Lead - Check  
Jacket Water Heater - Check  
Power Factor - Check  
Standby Generator Set Maintenance Recommendations

## **Every Year**

Alternator - Inspect  
Alternator and Fan Belts - Inspect/Adjust/Replace  
Cooling System Supplemental Coolant Additive (SCA) - Test/Add  
Crankshaft Vibration Damper - Inspect  
Engine - Clean  
Engine Air Cleaner Element (Dual Element) - Clean/Replace  
Engine Crankcase Breather - Clean  
Engine Mounts - Inspect  
Engine Oil Sample - Obtain  
Engine Oil and Filter - Change  
Engine Performance - Test  
Engine Protective Devices - Check  
Engine Valve Lash - Inspect/Adjust  
Engine Valve Rotators - Inspect  
Fan Drive Bearing - Lubricate  
Fuel System Primary Filter (Water Separator) Element - Replace  
Fuel System Secondary Filter - Replace  
Generator - Dry  
Generator Set Vibration - Inspect  
Hoses and Clamps - Inspect/Replace  
Insulation - Test  
Radiator - Clean  
Starting Motor - Inspect  
Water Pump - Inspect

## **Every 3 Years**

Cooling System Coolant (DEAC) - Change  
Cooling System Coolant Extender (ELC) - Add  
Cooling System Water Temperature Regulator - Replace  
Cylinder Head Grounding Stud - Inspect/Clean/Tighten  
Engine Speed/Timing Sensors - Check/Clean/Calibrate  
Hoses and Clamps - Replace  
Rotating Rectifier - Check  
Turbocharger - Inspect

## **Every 6 Years**

## Cooling System Coolant (ELC) - Change

---

Copyright 1993 - 2007 Caterpillar Inc.  
All Rights Reserved.  
Private Network For SIS Licensees.

Sat Jan 13 19:19:05 EST 2007