

**ENGINE TEST [3RC]****JULY 15, 2015**For Help Desk Phone Numbers [Click here](#)

Sales Model: 3516

Built Date: 11Nov1988

Tested Date: 15Nov1988

Shipped Date: 06Dec1988

Tested: LB

Plant: Lafayette

Cell Number: 510

Test Element	Eng Updates	Test Value	Test Spec Value	Measure
Spec Number		0T6713	0T6713	
Arrangement Number		2W1450	2W1450	
CORR FL PWR		1,262	1,266	HP
Speed		1,196	1,200	RPM
CORR FL FUEL RATE				BTU/MIN
CSFC				BTU/HP-H
Jacket Water Temp				F
IN SCAC H2O				F
Compressor Out Pressure				PSIA
Inlet Manifold Pressure				PSIA
Excess Oxygen				%
NOx Level				PPM
FL Oil Press		58	62	PSI
High Speed		1,207	1,200	RPM
Diff Fuel Pressure High				PSI
Low Idle Speed		901	900	RPM
Low Idle Oil Pressure		59	50	PSI
Fuel Pressure				PSIA
Timing BTDC				DEG
Advertised Power			1,151	hp
Advertised Speed			1,200	RPM
Adjusted Boost (Gas Blending)				HG
Corrected Fuel Rate - Gas (Gas Blending)				BTU/MIN
Corrected Fuel Rate - Diesel (Gas Blending)				GAL/HR
Full Load Fueling (Gas Blending)				MM3/ST
Gas Substitution Ratio (Gas Blending)				%
Corr Full Load Power (Gas Blending)				HP
Full Load Speed (Gas Blending)				RPM
Exhaust Back Pressure				PSI
TQ CK Exhaust Back Pressure				PSI
Ataac Delta Pressure				PSI

Caterpillar Confidential: Green

Content Owner: Commercial Processes Division

Web Master(s): [PSG Web Based Systems Support](#)

Current Date: Wednesday, July 15, 2015 2:09:49 PM

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## Engine Emissions Data

For Emissions feedback and questions submit [request form](#)

This emission data is Caterpillar's best estimate for this rating. If actual emissions are required then an emission test needs to be run on your engine.

Serial Number (Machine)	
Serial Number (Engine)	3RC
Sales Model	G3516
Build Date	1988-11-11
Interlock Code Progression	No Interlock Code Progression
<b>As Shipped Data</b>	
Engine Arrangement Number	2W1450
Test Spec Number	0T6713
Regulatory Status	Please Contact Engine Certification using <a href="#">request form</a>
Flash File	No Flash File Found
CORR FL Power at RPM	
Advertised Power	1,151HP 1,200RPM

This is not an official emission certificate. This is for emission data information only.

Caterpillar Confidential: Green  
 Content Owner: Commercial Processes Division  
 Web Master(s): [PSG Web Based Systems Support](#)  
 Current Date: Wednesday, July 15, 2015 1:59:06 PM  
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## Dealer Name & Address



### Cleveland Brothers Equipment Company Inc

**Dealer Code:** B090

**Phone Number:** (724) 327-1300

**Legal Name:** Cleveland Brothers  
Equipment  
Company Inc.

**Mailing Address:** 4565 William Penn Hwy  
Murrysville PA  
15668-2003

**Agreements Exist:** Yes

**Site Address:** 4565 William Penn Hwy  
Murrysville PA  
15668-2003



# Product Configuration



**Inquiry Serial Number:** 3RC  
**Inquiry Serial Number Desc:**  
**Inquiry Product Ref.No/Arr.No:** PA3024  
**Selling Dealer:** B090

Serial Number	Reference Number or SMCS Code	Description	Category	Install Indicator	Install Date
3RC00148	PA3024				None
3RC00148	PA0827			Factory	None
3RC00148	PA1890	ELEC START MTR LH DUAL 24V 01		Factory	None
3RC00148	PL8982			Factory	None
3RC00148	2W5616	OIL PAN DRAIN COVER		Factory	None
3RC00148	5N4659	OIL LEVEL REGULATOR		Factory	None
3RC00148	7C0246			Factory	None
3RC00148	9Y8179	INLET/OUTLET CONNECTION 03		Factory	None



## Customer Name & Address



**Inquiry Serial Number:** 3RC  
**Prime Sales Model:** G3516  
**Prime Serial Number:** 3RC00148  
**Delivery Date:** 07Sep1989  
**Customer Number:**  
**Customer Name:** SANI-DAIRY  
**Customer Phone Number:**  
**Address Line 1:** 400 FRANKLIN ST  
**Address Line 2:**  
**Address Line 3:**  
**Address Line 4:**  
**City:** JOHNSTOWN  
**State/Province:** PA  
**Zip/Postal Code:** 15901-2597  
**Country:** USA  
**Sales Contact:**  
**Service Contact:**  
**Addresssing Dealer:**  
**Last Update Date:** 13Dec1989

**Declaring Dealer:** B090



## Sales and Service Detail

**3RC00148**

<b>Arrangement No:</b>	2W-1450	<b>Build Date:</b>	11Nov1988
<b>Mfg Model:</b>	G3516	<b>Factory Ship Date:</b>	Not Applicable
<b>Mktg Model Year:</b>	1988	<b>Dealer/Invoiced Ship Date:</b>	06Dec1988
<b>Prod Family:</b>	ZP Gas Engines	<b>Sales Date:</b>	19Dec1988
<b>Sims Prod Family:</b>	68 Gas Engines	<b>Delivery Date:</b>	07Sep1989
<b>Source Facility:</b>	88 Lafayette Plant	<b>Selling Dlr:</b>	B090
<b>Principle Work:</b>	C76 Manufacturing	<b>Owner Cls:</b>	A



## Sales and Service Detail

<a href="#">View Image</a>	<a href="#">Add Image</a>	Group Number	Part Causing Failure	Repairing Dealer	Service Meter Measurement	Repair Date	SI
	<a href="#">Add</a>	7755	PS4639	8090	9622 Hours	06Jan1993	No
	<a href="#">Add</a>	7755	PS4639	8090	7994 Hours	16Apr1992	SI
	<a href="#">Add</a>	7751	PI3478	8090	5032 Hours	14Jun1991	SI



## Sales and Service Detail

Work Order Number	Dealer Claim Number	Service Claim Number	Comm
01359504	01167500	Q981617	SI 11-3-
01390392	01778500	Q728046	Comple



**Preventive Maintenance  
Standby Semi-Annual Checklist**

<b>Customer:</b>	REVOL	<b>Customer Number:</b>	1040750
<b>Attn:</b>	JAMESON TOWNSEND	<b>Phone Number:</b>	216.525.1131
<b>Address:</b>	7165 E. PLEASANT VALLEY RD	<b>Fax Number:</b>	
<b>City, State, Zip</b>	INDEPENDENCE, OH 44131	<b>Customer Unit ID:</b>	
		<b>Email:</b>	<u> jameson.townsend@revol.com </u>
		<b>PSSR / Store:</b>	PAUL NATEMEIER
		<b>Type:</b>	STANDBY GEN
		<b>Parts ID:</b>	

	Mfgr.	Model	S/N	Arr. NO.	Part NO.
Package					
Engine	CAT		3516 03RC		
Driven Unit					
Governor					
Control Panel					
Day Tank					
Battery Charger					
Block Heater				Watts	Qty
Radiator					

	PM Level	Date	W/O NO.	Hours	Service Tech
Last PM					
This PM	PM1	5/7/2012	CV43352	11722	R262

(OK) Performs to Standard      (NA) Not Applicable      (XC) Problem Corrected      (XX) Needs Attention

NOTE: \_\_\_\_\_  
 LOCKOUT / TAGOUT PROCEDURE COMPLETED ON: \_\_\_\_\_

- ok 1. Visually Inspect Radiator/Heat Exchanger for Leaks, Damage and Obstruction
- ok 2. Add coolant to bring the coolant to it's correct level \_\_\_\_\_
- ok 3. Inspect Condition of Radiator Cap, Gasket and Sealing Surface
- ok 4. Analysis Coolant for Proper Antifreeze Percentage \_\_\_\_\_
- na 5. Analysis Conditioner SCA Level and Add Additional SCA as Needed \_\_\_\_\_  
     LLC Yes/No: \_\_\_\_\_  
     LLC Extender: \_\_\_\_\_  
     Antifreeze Installed: \_\_\_\_\_
- ok 6. Visually Inspect Water Pump and Cooling System Gaskets for Leaks
- ok 7. Inspect Flexible Water Connections for Cracking, Leaks and Pliability
- ok 8. Re-Torque Hose Clamps
- ok 9. Inspect Pulleys for Excessive Wear
- ok 10. Inspect Belts for Cracking and Fraying  
     Fan Belt Part No: \_\_\_\_\_  
     Alt. Belt Part No: \_\_\_\_\_
- ok 11. Adjust Belt Tension

- ok 12. Check Jacket Water Heater(s) for Proper Operation and Adjust Thermostat Setting
- ok 13. Add Crankcase Oil to Bring the Oil to it's Correct Level (Change Oil and Filters during Annual PM)
- na 14. Inspect Oil Heater for Proper Operation and Check Thermostat Seals
- ok 15. Visually Inspect Front and Rear Crankshaft Seals and Lubrication System Gaskets for Leaks
- na 16. Record Fuel Level in Main Fuel Tank \_\_\_\_\_
- na 17. Stick Main Tank for Water
- na 18. Test Day Tank Pump for Proper Operation and Level
- na 19. Test Day Tank Alarms
- na 20. Drain Water and Sediment From Day Tank (if accessible)
- na 21. Clean or Replace Inlet Filters (During Annual PM Only) for Day Tank
- na 22. Clean Primary Fuel Filter (if screen type)
- na 23. Drain Water From Water Seperator
- na 24. Operate Fuel Priming Pump and Check for Proper Operation and Leaks
- ok 25. Check the Engine's Fuel System for Leaks
- ok 26. Inspect Flexible Fuel Lines for Cracking, Leaks and Pliability
- ok 27. Check Governor Oil Level and Add Oil as Needed \_\_\_\_\_
- ok 28. Inspect Steel Fuel Lines for Cracks, Leaks and Proper Line Bracket Support
- na 29. Check and Record Battery Cells Electrolyte Specific Gravity

Battery Mfg:		Group No:		Part No:	
Cells	Battery / String				
	A	B	C	D	E
1:					
2:					
3:					
4:					
5:					
6:					

- na 30. Top Off Electrolyte Level
- ok 31. Check and Record Battery Charger Amperage  
 Equ. Rate: \_\_\_\_\_  
 Float Rate: 26
- ok 32. Check Battery Charger and Adjust Float Rate for Optimum Battery Performance and Life  
 Equ. Volts: \_\_\_\_\_  
 Float Volts: 6.5
- ok 33. Tighten Battery Cable Connections as Needed
- ok 34. Clean and Apply Corosion Inhibitor to Terminals of Only Lead Acid Batteries as Needed
- ok 35. Inspect and Tighten Starter Motor Connections and Wiring
- ok 36. Inspect Flexible Exhaust Coupling for Cracks and Excessive Leakage
- ok 37. Visually Inspect Exterior of Exhaust Manifolds for Oil or Fuel Slobbering (signs of wet stacking)
- ok 38. Inspect Exhaust Rain Protection and/or Exhaust Outlet Screening
- ok 39. Drain Water in Exhaust Moisture Traps
- ok 40. Inspect Exhaust Manifold(s) for Broken or Missing Hardware
- ok 41. Inspect Air Filters for Plugging and Deterioration
- ok 42. Test Air Cleaner Indicator  
 Air Filter Part No: \_\_\_\_\_
- ok 43. Check All Air Intake Piping for Damage and Loose Connections
- ok 44. Inspect Turbocharger for Seal Leakage and Excessive End Play Clearance (if applicable)
- ok 45. Perform an Operational Check of Illumination and Safety Lamps
- ok 46. Check for and Tighten Loose Terminals on the Generator Set and Generator Control Panel
- ok 47. Check Tightness of Relays in the Generator Control Panel
- ok 48. Inspect for Excessive Dirt Accumulation in the Control Panel and Clean as Needed
- ok 49. Inspect Air Cleaner Seal for Pliability and Sealing
- na 50. Check Rotor Air Gap for Correct Clearances
- na 51. Inspect Rotor and Stator for Damage and Excessive Oil and/or Dirt Build Up
- ok 52. Inspect Coupling and Guards for Loose or Missing Parts
- na 53. Check Tightness of Generator Leads and Voltage Regulator Control Wiring
- ok 54. Strap and Tape any Wiring or Generator Leads that Have Rubbing or Worn Insulation

- na 55. Inspect Brushes and Slip Rings or Rotating Rectifiers
- na 56. Clean and Adjust Voltage Droop Potentiometer
- na 57. Clean Crankcase Breather, Inspect Hose and Connections
- na 58. Lubricate Fan Drive with Caterpillar Bearing Lubricant (Annual PM Only)
- na 59. Lubricate Governor Linkage with Caterpillar Bearing Lubricant (Annual PM Only)
- na 60. Lubricate Generator Bearing with Caterpillar Bearing Lubricant (Annual PM Only)
- ok 61. Inspect Generator Set Vibration Isolators and Adjust as Needed
- ok 62. Make a Walk Around Inspection of Complete Installation
- na 63. Check for Unit On-Line Capability in Less Than Ten Seconds
- na 64. Check and Record Battery Voltage Dip Level During Overcrank Test for  
Minimum Voltage Required to Maintaine Controls During Starting \_\_\_\_\_
- ok 65. Check for Proper Cranking Termination Upon Starting
- ok 66. Check Proper Operation of Engine and Generator Instruments with Generator Running
- ok 67. Adjust Governor Control for Optimum Performance and Frequency \_\_\_\_\_
- na 68. Adjust Voltage Regulator for Proper Voltage \_\_\_\_\_
- na 69. Record Field Voltage During Generator No-Load Run for Base Line \_\_\_\_\_
- na 70. Check and Record Alternator Voltage with Engine Running \_\_\_\_\_
- ok 71. Check for Abnormal Noise or Vibration
- ok 72. Check for Abnormal Exhaust Characteristics with Engine Running (signs of wet stacking)
- na 73. Check for Proper Operation of Remote Fan Motors, Thermostats,  
Circulating Pumps, and Solenoid Valves
- ok 74. Check Inlet and Discharge Louvers for Proper Operation with Engine Running and Stopped
- ok 75. Check for Excessive Crankcase Blow-by with Engine Running
- ok 76. Re-Check Oil Level with Engine Running
- ok 77. Re-Check for Leaks with Engine Running
- na 78. Test Auto-Start System
- ok 79. Test Safeties and Prealarms on Control and Annunciator Panels
- ok 80. Take Oil Sample (after operational checks) for Caterpillar S.O.S. Program
- ok 81. Reset All Controls to Automatic
- ok 82. Set Circuit Breaker to Correct Position
- ok 83. Check Fuel Valves for Correct Position
- ok 84. Check Voltage Regulator to Insure That it is ON and NOT Tripped
- ok 85. Check to Insure That Battery Charger is ON
- na 86. Check Day Tank Controls to Insure that they are ON
- na 87. Check Remote Radiator Fan Controls to Insure they are ON
- na 88. Check Auxiliary Water Pump Controls to Insure they are ON
- ok 89. Check Jacket Water Heater(s) to Insure that they are ON
- na 90. Check Louver Controls to Insure that they are ON

**Next PM Due:**

**Batteries Need Replaced By:**

**Last Load Test:**

**Next Load Test Due:**

***Items Requiring Service Last PM***

Item Number	Description of Service(s) Required or Performed

***Items Requiring Service This PM***

Item Number	Description of Service(s) Required or Performed
	Ran unit with no load and pulled fluid sample. Found everything to be in order



**Preventive Maintenance  
Standby Semi-Annual Checklist**

**Customer:** REVOL  
**Attn:** MICHAEL TUFFORD  
**Address:** 7165 E. PLEASANT VALLEY RD  
**City, State, Zip:** INDEPENDENCE, OH 44131

**Customer Number:** 1040750  
**Phone Number:** 330.371.3812  
**Fax Number:**  
**Customer Unit ID:**  
**Email:** [michael.tufford@revol.com](mailto:michael.tufford@revol.com)  
**PSSR / Store:** PAUL NATEMEIER  
**Type:** STANDBY GEN  
**Parts ID:**

	Mfgr.	Model	S/N	Arr. NO.	Part NO.
Package					
Engine	CAT		3516 03RC		
Driven Unit					
Governor					
Control Panel					
Day Tank					
Battery Charger					
Block Heater				Watts	Qty
Radiator					

	PM Level	Date	W/O NO.	Hours	Service Tech
Last PM					
This PM	PM1	4/23/2013	CV48169	11753	R150

(OK) Performs to Standard      (NA) Not Applicable      (XC) Problem Corrected      (XX) Needs Attention

NOTE: \_\_\_\_\_  
 LOCKOUT / TAGOUT PROCEDURE COMPLETED ON: \_\_\_\_\_

- ok \_\_\_\_\_ 1. Visually Inspect Radiator/Heat Exchanger for Leaks, Damage and Obstruction
- ok \_\_\_\_\_ 2. Add coolant to bring the coolant to it's correct level \_\_\_\_\_
- ok \_\_\_\_\_ 3. Inspect Condition of Radiator Cap, Gasket and Sealing Surface
- ok \_\_\_\_\_ 4. Analysis Coolant for Proper Antifreeze Percentage \_\_\_\_\_
- ok \_\_\_\_\_ 5. Analysis Conditioner SCA Level and Add Additional SCA as Needed \_\_\_\_\_  
     LLC Yes/No: \_\_\_\_\_  
     LLC Extender: \_\_\_\_\_  
     Antifreeze Installed: \_\_\_\_\_
- ok \_\_\_\_\_ 6. Visually Inspect Water Pump and Cooling System Gaskets for Leaks
- ok \_\_\_\_\_ 7. Inspect Flexible Water Connections for Cracking, Leaks and Pliability
- ok \_\_\_\_\_ 8. Re-Torque Hose Clamps
- ok \_\_\_\_\_ 9. Inspect Pulleys for Excessive Wear
- ok \_\_\_\_\_ 10. Inspect Belts for Cracking and Fraying  
     Fan Belt Part No: \_\_\_\_\_  
     Alt. Belt Part No: \_\_\_\_\_
- ok \_\_\_\_\_ 11. Adjust Belt Tension

- ok 12. Check Jacket Water Heater(s) for Proper Operation and Adjust Thermostat Setting
- ok 13. Add Crankcase Oil to Bring the Oil to it's Correct Level (Change Oil and Filters during Annual PM)
- n/a 14. Inspect Oil Heater for Proper Operation and Check Thermostat Seals
- ok 15. Visually Inspect Front and Rear Crankshaft Seals and Lubrication System Gaskets for Leaks
- n/a 16. Record Fuel Level in Main Fuel Tank \_\_\_\_\_
- n/a 17. Stick Main Tank for Water
- n/a 18. Test Day Tank Pump for Proper Operation and Level
- n/a 19. Test Day Tank Alarms
- n/a 20. Drain Water and Sediment From Day Tank (if accessible)
- n/a 21. Clean or Replace Inlet Filters (During Annual PM Only) for Day Tank
- n/a 22. Clean Primary Fuel Filter (if screen type)
- n/a 23. Drain Water From Water Seperator
- n/a 24. Operate Fuel Priming Pump and Check for Proper Operation and Leaks
- ok 25. Check the Engine's Fuel System for Leaks
- ok 26. Inspect Flexible Fuel Lines for Cracking, Leaks and Pliability
- n/a 27. Check Governor Oil Level and Add Oil as Needed \_\_\_\_\_
- ok 28. Inspect Steel Fuel Lines for Cracks, Leaks and Proper Line Bracket Support
- n/a 29. Check and Record Battery Cells Electrolyte Specific Gravity

Battery Mfg:		Group No:		Part No:	
Cells	Battery / String				
	A	B	C	D	E
1:					
2:					
3:					
4:					
5:					
6:					

- n/a 30. Top Off Electrolyte Level
- ok 31. Check and Record Battery Charger Amperage  
 Equ. Rate: \_\_\_\_\_  
 Float Rate: 4
- ok 32. Check Battery Charger and Adjust Float Rate for Optimum Battery Performance and Life  
 Equ. Volts: \_\_\_\_\_  
 Float Volts: 26
- ok 33. Tighten Battery Cable Connections as Needed
- ok 34. Clean and Apply Corosion Inhibitor to Terminals of Only Lead Acid Batteries as Needed
- ok 35. Inspect and Tighten Starter Motor Connections and Wiring
- ok 36. Inspect Flexible Exhaust Coupling for Cracks and Excessive Leakage
- ok 37. Visually Inspect Exterior of Exhaust Manifolds for Oil or Fuel Slobbering (signs of wet stacking)
- ok 38. Inspect Exhaust Rain Protection and/or Exhaust Outlet Screening
- n/a 39. Drain Water in Exhaust Moisture Traps
- ok 40. Inspect Exhaust Manifold(s) for Broken or Missing Hardware
- ok 41. Inspect Air Filters for Plugging and Deterioration
- ok 42. Test Air Cleaner Indicator  
 Air Filter Part No: \_\_\_\_\_
- ok 43. Check All Air Intake Piping for Damage and Loose Connections
- ok 44. Inspect Turbocharger for Seal Leakage and Excessive End Play Clearance (if applicable)
- ok 45. Perform an Operational Check of Illumination and Safety Lamps
- ok 46. Check for and Tighten Loose Terminals on the Generator Set and Generator Control Panel
- ok 47. Check Tightness of Relays in the Generator Control Panel
- ok 48. Inspect for Excessive Dirt Accumulation in the Control Panel and Clean as Needed
- ok 49. Inspect Air Cleaner Seal for Pliability and Sealing
- ok 50. Check Rotor Air Gap for Correct Clearances
- ok 51. Inspect Rotor and Stator for Damage and Excessive Oil and/or Dirt Build Up
- ok 52. Inspect Coupling and Guards for Loose or Missing Parts
- ok 53. Check Tightness of Generator Leads and Voltage Regulator Control Wiring
- ok 54. Strap and Tape any Wiring or Generator Leads that Have Rubbing or Worn Insulation

- ok \_\_\_\_\_ 55. Inspect Brushes and Slip Rings or Rotating Rectifiers
- ok \_\_\_\_\_ 56. Clean and Adjust Voltage Droop Potentiometer
- ok \_\_\_\_\_ 57. Clean Crankcase Breather, Inspect Hose and Connections
- n/a \_\_\_\_\_ 58. Lubricate Fan Drive with Caterpillar Bearing Lubricant (Annual PM Only)
- n/a \_\_\_\_\_ 59. Lubricate Governor Linkage with Caterpillar Bearing Lubricant (Annual PM Only)
- n/a \_\_\_\_\_ 60. Lubricate Generator Bearing with Caterpillar Bearing Lubricant (Annual PM Only)
- ok \_\_\_\_\_ 61. Inspect Generator Set Vibration Isolators and Adjust as Needed
- ok \_\_\_\_\_ 62. Make a Walk Around Inspection of Complete Installation
- n/a \_\_\_\_\_ 63. Check for Unit On-Line Capability in Less Than Ten Seconds
- ok \_\_\_\_\_ 64. Check and Record Battery Voltage Dip Level During Overcrank Test for  
Minimum Voltage Required to Maintaine Controls During Starting \_\_\_\_\_
- ok \_\_\_\_\_ 65. Check for Proper Cranking Termination Upon Starting
- ok \_\_\_\_\_ 66. Check Proper Operation of Engine and Generator Instruments with Generator Running
- ok \_\_\_\_\_ 67. Adjust Governor Control for Optimum Performance and Frequency \_\_\_\_\_
- ok \_\_\_\_\_ 68. Adjust Voltage Regulator for Proper Voltage \_\_\_\_\_
- ok \_\_\_\_\_ 69. Record Field Voltage During Generator No-Load Run for Base Line \_\_\_\_\_
- ok \_\_\_\_\_ 70. Check and Record Alternator Voltage with Engine Running \_\_\_\_\_
- ok \_\_\_\_\_ 71. Check for Abnormal Noise or Vibration
- ok \_\_\_\_\_ 72. Check for Abnormal Exhaust Characteristics with Engine Running (signs of wet stacking)
- n/a \_\_\_\_\_ 73. Check for Proper Operation of Remote Fan Motors, Thermostats,  
Circulating Pumps, and Solenoid Valves
- n/a \_\_\_\_\_ 74. Check Inlet and Discharge Louvers for Proper Operation with Engine Running and Stopped
- ok \_\_\_\_\_ 75. Check for Excessive Crankcase Blow-by with Engine Running
- n/a \_\_\_\_\_ 76. Re-Check Oil Level with Engine Running
- ok \_\_\_\_\_ 77. Re-Check for Leaks with Engine Running
- n/a \_\_\_\_\_ 78. Test Auto-Start System
- ok \_\_\_\_\_ 79. Test Safeties and Prealarms on Control and Annunciator Panels
- ok \_\_\_\_\_ 80. Take Oil Sample (after operational checks) for Caterpillar S.O.S. Program
- ok \_\_\_\_\_ 81. Reset All Controls to Automatic
- ok \_\_\_\_\_ 82. Set Circuit Breaker to Correct Position
- ok \_\_\_\_\_ 83. Check Fuel Valves for Correct Position
- ok \_\_\_\_\_ 84. Check Voltage Regulator to Insure That it is ON and NOT Tripped
- ok \_\_\_\_\_ 85. Check to Insure That Battery Charger is ON
- n/a \_\_\_\_\_ 86. Check Day Tank Controls to Insure that they are ON
- n/a \_\_\_\_\_ 87. Check Remote Radiator Fan Controls to Insure they are ON
- n/a \_\_\_\_\_ 88. Check Auxillary Water Pump Controls to Insure they are ON
- ok \_\_\_\_\_ 89. Check Jacket Water Heater(s) to Insure that they are ON
- n/a \_\_\_\_\_ 90. Check Louver Controls to Insure that they are ON

**Next PM Due:**

**Batteries Need Replaced By:**

**Last Load Test:**

**Next Load Test Due:**

***Items Requiring Service Last PM***

Item Number	Description of Service(s) Required or Performed
	performed pm 1test ran at no-load =ok

***Items Requiring Service This PM***

Item Number	Description of Service(s) Required or Performed



**Preventive Maintenance  
Standby Semi-Annual Checklist**

**Customer:** REVOL  
**Attn:** JAMESON TOWNSEND  
**Address:** 7165 E. PLEASANT VALLEY RD  
**City, State, Zip** INDEPENDENCE, OH 44131

**Customer Number:** 1040750  
**Phone Number:** 216.525.1131  
**Fax Number:**  
**Customer Unit ID:**  
**Email:** jameson.townsend@revol.com  
**PSSR / Store:** PAUL NATEMEIER  
**Type:** STANDBY GEN  
**Parts ID:**

	Mfgr.	Model	S/N	Arr. NO.	Part NO.
Package					
Engine	CAT		3516 03RC		
Driven Unit					
Governor					
Control Panel					
Day Tank					
Battery Charger					
Block Heater				Watts	Qty
Radiator					

	PM Level	Date	W/O NO.	Hours	Service Tech
Last PM					
This PM	PM2	11/13/2012	CV46076	11737	R150

(OK) Performs to Standard      (NA) Not Applicable      (XC) Problem Corrected      (XX) Needs Attention

NOTE: \_\_\_\_\_  
 LOCKOUT / TAGOUT PROCEDURE COMPLETED ON: \_\_\_\_\_

- ok \_\_\_\_\_ 1. Visually Inspect Radiator/Heat Exchanger for Leaks, Damage and Obstruction
- ok \_\_\_\_\_ 2. Add coolant to bring the coolant to it's correct level \_\_\_\_\_
- ok \_\_\_\_\_ 3. Inspect Condition of Radiator Cap, Gasket and Sealing Surface
- ok \_\_\_\_\_ 4. Analysis Coolant for Proper Antifreeze Percentage \_\_\_\_\_
- ok \_\_\_\_\_ 5. Analysis Conditioner SCA Level and Add Additional SCA as Needed \_\_\_\_\_  
     LLC Yes/No: \_\_\_\_\_  
     LLC Extender: \_\_\_\_\_  
     Antifreeze Installed: \_\_\_\_\_
- ok \_\_\_\_\_ 6. Visually Inspect Water Pump and Cooling System Gaskets for Leaks
- ok \_\_\_\_\_ 7. Inspect Flexible Water Connections for Cracking, Leaks and Pliability
- ok \_\_\_\_\_ 8. Re-Torque Hose Clamps
- ok \_\_\_\_\_ 9. Inspect Pulleys for Excessive Wear
- ok \_\_\_\_\_ 10. Inspect Belts for Cracking and Fraying  
     Fan Belt Part No: \_\_\_\_\_  
     Alt. Belt Part No: \_\_\_\_\_
- ok \_\_\_\_\_ 11. Adjust Belt Tension

- ok 12. Check Jacket Water Heater(s) for Proper Operation and Adjust Thermostat Setting
- ok 13. Add Crankcase Oil to Bring the Oil to it's Correct Level (Change Oil and Filters during Annual PM)
- n/a 14. Inspect Oil Heater for Proper Operation and Check Thermostat Seals
- ok 15. Visually Inspect Front and Rear Crankshaft Seals and Lubrication System Gaskets for Leaks
- n/a 16. Record Fuel Level in Main Fuel Tank \_\_\_\_\_
- n/a 17. Stick Main Tank for Water
- n/a 18. Test Day Tank Pump for Proper Operation and Level
- n/a 19. Test Day Tank Alarms
- n/a 20. Drain Water and Sediment From Day Tank (if accessible)
- n/a 21. Clean or Replace Inlet Filters (During Annual PM Only) for Day Tank
- n/a 22. Clean Primary Fuel Filter (if screen type)
- n/a 23. Drain Water From Water Seperator
- n/a 24. Operate Fuel Priming Pump and Check for Proper Operation and Leaks
- ok 25. Check the Engine's Fuel System for Leaks
- ok 26. Inspect Flexible Fuel Lines for Cracking, Leaks and Pliability
- n/a 27. Check Governor Oil Level and Add Oil as Needed \_\_\_\_\_
- ok 28. Inspect Steel Fuel Lines for Cracks, Leaks and Proper Line Bracket Support
- n/a 29. Check and Record Battery Cells Electrolyte Specific Gravity

Battery Mfg:		Group No:		Part No:	
Cells	Battery / String				
	A	B	C	D	E
1:					
2:					
3:					
4:					
5:					
6:					

- n/a 30. Top Off Electrolyte Level
- ok 31. Check and Record Battery Charger Amperage  
 Equ. Rate: \_\_\_\_\_  
 Float Rate: \_\_\_\_\_ 6
- ok 32. Check Battery C 26  
 Equ. Volts: \_\_\_\_\_  
 Float Volts: \_\_\_\_\_ 26
- ok 33. Tighten Battery Cable Connections as Needed
- ok 34. Clean and Apply Corosion Inhibitor to Terminals of Only Lead Acid Batteries as Needed
- ok 35. Inspect and Tighten Starter Motor Connections and Wiring
- ok 36. Inspect Flexible Exhaust Coupling for Cracks and Excessive Leakage
- ok 37. Visually Inspect Exterior of Exhaust Manifolds for Oil or Fuel Slobbering (signs of wet stacking)
- ok 38. Inspect Exhaust Rain Protection and/or Exhaust Outlet Screening
- n/a 39. Drain Water in Exhaust Moisture Traps
- ok 40. Inspect Exhaust Manifold(s) for Broken or Missing Hardware
- ok 41. Inspect Air Filters for Plugging and Deterioration
- ok 42. Test Air Cleaner Indicator  
 Air Filter Part No: \_\_\_\_\_
- ok 43. Check All Air Intake Piping for Damage and Loose Connections
- ok 44. Inspect Turbocharger for Seal Leakage and Excessive End Play Clearance (if applicable)
- ok 45. Perform an Operational Check of Illumination and Safety Lamps
- ok 46. Check for and Tighten Loose Terminals on the Generator Set and Generator Control Panel
- ok 47. Check Tightness of Relays in the Generator Control Panel
- ok 48. Inspect for Excessive Dirt Accumulation in the Control Panel and Clean as Needed
- ok 49. Inspect Air Cleaner Seal for Pliability and Sealing
- ok 50. Check Rotor Air Gap for Correct Clearances
- ok 51. Inspect Rotor and Stator for Damage and Excessive Oil and/or Dirt Build Up
- ok 52. Inspect Coupling and Guards for Loose or Missing Parts
- ok 53. Check Tightness of Generator Leads and Voltage Regulator Control Wiring
- ok 54. Strap and Tape any Wiring or Generator Leads that Have Rubbing or Worn Insulation

- ok 55. Inspect Brushes and Slip Rings or Rotating Rectifiers
- ok 56. Clean and Adjust Voltage Droop Potentiometer
- ok 57. Clean Crankcase Breather, Inspect Hose and Connections
- ok 58. Lubricate Fan Drive with Caterpillar Bearing Lubricant (Annual PM Only)
- ok 59. Lubricate Governor Linkage with Caterpillar Bearing Lubricant (Annual PM Only)
- n/a 60. Lubricate Generator Bearing with Caterpillar Bearing Lubricant (Annual PM Only)
- ok 61. Inspect Generator Set Vibration Isolators and Adjust as Needed
- ok 62. Make a Walk Around Inspection of Complete Installation
- n/a 63. Check for Unit On-Line Capability in Less Than Ten Seconds
- ok 64. Check and Record Battery Voltage Dip Level During Overcrank Test for  
Minimum Voltage Required to Maintain Controls During Starting 21
- ok 65. Check for Proper Cranking Termination Upon Starting
- ok 66. Check Proper Operation of Engine and Generator Instruments with Generator Running
- ok 67. Adjust Governor Control for Optimum Performance and Frequency 60
- ok 68. Adjust Voltage Regulator for Proper Voltage 480
- ok 69. Record Field Voltage During Generator No-Load Run for Base Line
- ok 70. Check and Record Alternator Voltage with Engine Running 27
- ok 71. Check for Abnormal Noise or Vibration
- ok 72. Check for Abnormal Exhaust Characteristics with Engine Running (signs of wet stacking)
- ok 73. Check for Proper Operation of Remote Fan Motors, Thermostats,  
Circulating Pumps, and Solenoid Valves
- ok 74. Check Inlet and Discharge Louvers for Proper Operation with Engine Running and Stopped
- ok 75. Check for Excessive Crankcase Blow-by with Engine Running
- ok 76. Re-Check Oil Level with Engine Running
- ok 77. Re-Check for Leaks with Engine Running
- n/a 78. Test Auto-Start System
- ok 79. Test Safeties and Prealarms on Control and Annunciator Panels
- ok 80. Take Oil Sample (after operational checks) for Caterpillar S.O.S. Program
- ok 81. Reset All Controls to Automatic
- ok 82. Set Circuit Breaker to Correct Position
- ok 83. Check Fuel Valves for Correct Position
- ok 84. Check Voltage Regulator to Insure That it is ON and NOT Tripped
- ok 85. Check to Insure That Battery Charger is ON
- n/a 86. Check Day Tank Controls to Insure that they are ON
- n/a 87. Check Remote Radiator Fan Controls to Insure they are ON
- n/a 88. Check Auxilliary Water Pump Controls to Insure they are ON
- ok 89. Check Jacket Water Heater(s) to Insure that they are ON
- n/a 90. Check Louver Controls to Insure that they are ON

Next PM Due:

Batteries Need Replaced By:

Last Load Test:

Next Load Test Due:

**Items Requiring Service Last PM**

Item Number	Description of Service(s) Required or Performed

**Items Requiring Service This PM**

Item Number	Description of Service(s) Required or Performed
	performed pm 2 test ran at no-load =ok unit needs new heater outlet hoses, need 6 ft 5p1506 hose and 4 8t1117 clamps,unit has isolation valves on heaters,freeze protection good to-34