





JOB NAME		PBC EOC PORTABLE 1017992					WORK ORDER #			TEST DATE		1/17/2023														
GEN MAKE		WACKER		MODEL	G85		SERIAL	5371332		SPEC																
ENG MAKE		JOHN DEERE		MODEL	4045TF275		SERIAL	PE4045T646863		SPEC																
RATED VOLTS		480	RATED AMPS		100.74	RATED KW		67	RATED KVA		83.75	RATED PF		0.8	LOAD PF		1									
MAX LOAD TEST KW			67.001	MAX LOAD TEST AMP			80.5908																			
25%		20.1477	50%		40.2954	75%		60.4431	80%		64.4727	85%		68.5022	90%		72.5318	95%		76.5613	100%		80.5908	110%		88.6499
NFPA 110 DATA					SAFETY DEVICE DATA					OVERCRANK DATA			AMB TEMP													
TIME DELAY ENG CRANK		CRANK TIME TO ENG START	RAMP TME TO SPEED	Hz OVER SHOOT	VOLT OVER SHOOT	TIME TO ATS TRANSFER				OVER SPEED	HIGH ENG TEMP	LOW OIL PRESS	CRANK TIME		START	74										
						ATS EM	ATS LS	ATS CC	ATS FP					REST TIME	60 MIN	75										
														ATTEMPTS	120 MIN	75										
														TOTAL TIME	0	180 MIN										
COLD																240MIN										
HOT																AVG	74.6667									
TIME	ENG HOURS	KW STEP	% KW	VOLTS L1-2	VOTS L2-3	VOLTS L3-1	AVG VOLTS	AMPS L1	AMPS L2	AMPS L3	AVG AMPS	HERTZ	POWER FACTOR	TOTAL KW	TOTAL KVA	TOTAL KVAR	COOLANT TEMP	OIL PRESSURE	BATTERY VOLTS							
12:05:00	5281.16	63.0	94.0855	482	480	481	481	76	76	75	75.6667	60	1	63.0373	63.0373	0	186.8	54	13.8							
12:10:00	5281.20	0.0	94.0855	482	480	481	481	76	76	75	75.6667	60	1	63.0373	63.0373	0	186.8	52	13.8							
12:15:00	5281.24	0.0	94.0855	482	480	481	481	76	76	75	75.6667	60	1	63.0373	63.0373	0	186.8	50	13.8							
12:20:00	5281.30	0.0	94.0855	482	480	481	481	76	76	75	75.6667	60	1	63.0373	63.0373	0	188.6	49	13.8							
12:35:00	5281.6	0.0	94.0855	482	480	481	481	76	76	75	75.6667	60	1	63.0373	63.0373	0	186.8	48	13.8							
12:50:00	5281.8	0.0	94.0855	482	480	481	481	76	76	75	75.6667	60	1	63.0373	63.0373	0	186.8	49	13.8							
13:05:00	5282.1	0.0	94.0855	482	480	481	481	76	76	75	75.6667	60	1	63.0373	63.0373	0	186.8	49	13.8							
13:20:00	5282.3	0.0	94.0855	482	480	481	481	76	76	75	75.6667	60	1	63.0373	63.0373	0	188.6	49	13.8							
13:35:00	5282.55	0.0	94.0855	482	480	481	481	76	76	75	75.6667	60	1	63.0373	63.0373	0	186.8	49	13.85							
13:50:00	5282.8	0.0	94.0855	482	480	481	481	76	76	75	75.6667	60	1	63.0373	63.0373	0	186.8	49	13.85							
14:05:00	5283.05	0.0	94.0855	482	480	481	481	76	76	75	75.6667	60	1	63.0373	63.0373	0	186.8	49	13.85							
14:10:00	5283.15	59.2	5.76118	482	480	481	481	4.7	4.5	4.7	4.63333	60	1	3.85999	3.85999	0	186.8	53	13.9							



GenServe Inc.  
100 Newtown Road  
Plainview, NY 11803  
(631) 435-0437  
Fax: (631) 435-2273  
www.genserveinc.com

GenServe Inc.  
341 Kaplan Drive - Unit 1  
Fairfield, NJ 07004  
(973) 614-0091  
Fax: (973) 614-0095  
www.genserveinc.com

GenServe Inc.  
115A Twinbridge Drive  
Pennsauken, NJ 081103  
(856) 324-0459  
Fax: (856) 438-6616  
www.genserveinc.com

**STANDBY POWER - COGENERATION**  
**SALES - SERVICE - LEASING**  
**718-956-8700 631-435-0437**

SITE NAME Palm Beach County EOC CUST. P.O.# 062222\*14527 SERVICE JOB # 0342788 WO # \_\_\_\_\_  
ADDRESS 20 South Military Trail, Emergency Operation Center, West Palm Beach, FL 33415  
CONTACT Randall Greear PHONE 561-712-6370 DATE 1/17/2023  
ENGINE/GENERATOR MAKE JD ENGINE MODEL 4045TF275 ESN PE4045T646863  
SPEC. # \_\_\_\_\_ HRS. 0.00  
ENGINE/GENERATOR MAKE WACKER MODEL \*G85 SN 5731332  
SPEC. # \_\_\_\_\_ F09 FRANK ZAHN

UNIT ID: 10170992 Wacker Portable **PREVENTATIVE MAINTENANCE CHECK LIST** AAAQ80816

LUBRICATION		AIR INTAKE		ENGINE PERFORMANCE	
<b>Check:</b>		<b>Check:</b>		<b>Check:</b>	
a. Leaks	P	a. Air cleaner restrictions	P	a. Governor operation	P
b. Engine oil level	P	b. Piping and connections	P	b. Vibration	P
c. Governor oil level**		c. Air cleaner element/#	P	c. Mounting hardware*	P
d. Crankcase breather	P			d. Oil pressure	60 P
<b>Change:*</b>		<b>EXHAUST SYSTEM</b>		e. Water temperature	158 P
e. Oil filter #	P	<b>Check:</b>		f. DC alternator	P
f. Engine oil type/qty	P	a. Leaks	P	1. Volts	13.9 P
g. Governor oil**		b. Condensation trap	P		
<b>Test: Oil sample* #</b>	NO	c. Wet stacking*	P	<b>GENERATOR PERFORMANCE</b>	
		d. Insulation		<b>Visual Check:</b>	
<b>COOLING SYSTEM</b>		e. Raincap	P	a. Rotor*	P
<b>Check:</b>		f. Hangers/Supports/Flex sections	P	b. Stator*	P
a. Leaks	P	<b>BATTERY SYSTEM</b>		c. Excitor/PMG*	
b. Coolant level	P	<b>Check:</b>		d. Bearings/Grease*	P
c. Freeze point		a. Charger voltage	NONE	e. Diodes/Rectifier*	P
d. Radiator air flow	P	1. Float		f. Windings and electrical connections*	
e. Louver system	P	2. Equalize		g. Voltage Regulator	F
f. Block heater		b. Electrolyte level	P	h. Air flow	P
g. Water pump	P	c. Terminals	P	i. Circuit breaker	P
h. Hoses	P	d. Cables	P	<b>Record:</b>	
i. Belts	P	e. Specific gravity		j. Voltage	SELECTABLE P
j. Fan hub	P	1. High	12.24 @ 886CCA P	k. Hertz	60 P
k. Pulleys	P	2. Low			
l. Radiator PSI*	P	f. Battery type/qty	31 X 1	<b>CONDITION-GENSET SYSTEM</b>	
m. Radiator cap PSI	P	<b>Clean:</b>		<b>Check,Clean:</b>	
n. Antifreeze type/capacity	P	g. Terminals/protector	P	a. Unusual/unsafe	F
<b>Change:*</b>				b. Housekeeping/wipe down unit*	P
o. Water filter** #		<b>ELECTRICAL SYSTEM</b>			
<b>Test: Antifreeze sample* #</b>	NO	<b>Visual Check:</b>		<b>BUILDING LOAD TEST*</b>	
		a. Wiring connections	P	<b>Record:</b>	
<b>FUEL SYSTEM</b>		b. Instrumentation	P	a. Amperage/leg	
<b>Fuel type:</b>	DIESEL	c. Chafing	P	b. Voltage/leg	
<b>Check:</b>		d. Alarms	P	c. Hertz	
a. Fuel leaks	P	e. Prealarms	P		
b. Lines/connections	P	f. Circuit breakers	P	<b>GENSET</b>	
c. Daytank level/gls		g. Fuses	P	<b>Check:</b>	
d. Daytank operation		h. Remote annunciator		a. Genset in auto?	NO
e. Transfer pump		<b>Check safety shutdowns:</b>		b. Breaker closed?	NO
f. Main tank level/capacity		a. Overcrank		<b>Beginning Hrs:</b>	5280.85
g. Vents/overflow	P	b. High water temperature		<b>Ending Hrs:</b>	
h. Injection pump	P	c. Low oil pressure			
i. Solenoid valve		d. Overspeed		<b>DIESEL EMISSION TEST NJ ONLY:</b>	
<b>Change:*</b>				<b>Air Quality:</b>	
j. Fuel filter #	P			<b>CODES:</b>	
k. Water separator** #				*As needed, specified, or during A service only.**If Equip	
<b>Test: Fuel sample* #</b>	NO			P-PASS, F-FAIL, C-CHANGED, N/A-NOT APPLICABL	

NOTES/COMMENTS

AVR IS BAD, INSTALL TEMPORARY AVR TO LOAD BANK AND CHECK THE ENGINE & ELECTRIC END FOR OTHER ISSUES



Customer Information	
Name	PBC
Address	20 S Military Trail
Contact	Jeffrey Childs
Phone	561-712-6320
<b>UNIT ID</b>	<b>10170992 Portable EOC</b>

Generator Information	
Model	G85
Serial	5731332
Engine Information	
Model	4045TF275
Serial	PE4045T646863

**WO#** 18120101

**DATE** 1/7/2019

**PASS**  
**FAIL**

### MINOR PM CHECKLIST

- Perform overall visual inspection of Genset/Enclosure
- Record current run hours of Gen-set
- Inspect for rodent intrusion
- Block Heater Functionality
- Record static battery VDC
- Observe coolant level and record coolant protection level
- Pressure test radiator and cap to cap specs
- Disconnect battery charger power
- Clean battery post, and post clamp, inspect cables
- Perform battery acid Electrolyte test
- Load test battery to correct C.C.A.
- Reconnect battery and seal connection
- Reconnect battery charger and record Amps
- Record Main Tank fuel level
- If applicable record day tank level
- Record gas PSI or gauge percent for LPG/NG units
- Check engine oil level
- Check/Clean crankcase vent port
- Inspect radiator fan belts, adjust if applicable
- Inspect condition of coolant radiator and heat exchanger
- Inspect air cleaner element and indicator
- Inspect- spark plugs, points, condenser, rotor and dist. cap
- Drain exhaust condensation trap if applicable
- Check Generator Unit for fire hazards
- Test controller audible alarm and control lamps if applicable
- Inspect and test circuit breaker
- Test run Gen-set to maximum temp
- Inspect louvers and duct work operation
- Inspect exhaust hangers and system for leaks
- Verify governor or gas components operation
- Inspect for unusual vibrations, loose or missing fasteners
- Record generator output voltage
- Adjust AVR if necessary
- Inspect governor and lubricate linkage as needed
- Record max coolant temp reached on gauge
- Record max oil temp reached if applicable
- Record lowest oil PSI reached if applicable
- Record engine alternator output voltage
- Verify condition of hoses and tightness of clamps
- Listen for worn alternator and engine bearings
- Test emergency shut down devices, return unit to auto

**PASS**  
**FAIL**

### MAJOR PM CHECKLIST

- Replace engine oil
  - Replace engine oil filter(s)
  - Replace engine fuel filter(s) clean strainers and reprime
  - Replace engine fuel/ water separator(s) and reprime
  - Visually inspect for fuel algae
  - Service dry or oil bath air filters if applicable
  - Verify and document Basin Rupture Alarm test if applicable
  - Clean and re-gap or replace spark plugs as needed
  - Replace points, condenser, rotor and distributor cap
  - Replace Air Filter(s) if applicable
  - Take Oil Analysis if applicable
  - Take Fuel Sample if applicable
  - Load Banking
- ATS Testing**
- Check transfer emergency to normal time (TDEN)
  - Check transfer engine cooldown time (TDEC)
  - Check voltages at ATS breaker/ **UTILITY**
  - Check voltages at ATS breaker/ **GENERATOR**
  - Check amp draws at ATS breaker/**UTILITY**
  - Check amp draws at ATS breaker/**GENERATOR**

### READINGS

54.65/54.85	Hourmeter Reading
52.00%	Main Tank Fuel Level
n/a	Day Tank Fuel Level if applicable
n/a	Gas Pressure LP/NG
59	Oil Pressure
n/a	Oil Temperature if available
179	Water Temperature
-34	Freeze Protection
dead	Static VDC
0	Cranking VDC
13.5	Engine Alt. VDC
none	Charge Rate

VAC	L1-L2	L2-L3	L3-L1	hz 60
	240			
VAC	L1-N	L2-N	L3-N	
	120	121		
AMP	L1	L2	L3	

**NOTES/RECOMMENDATIONS:**

**Technician: ROBBIE SINGLETON**

Controller, seals and door seals need to be replaced as water is getting in the unit. Start relay and battery need to be replaced as they failed test during annual service.



Prepared By: Jorge Bell  
j.Bell@ljpower.net

ljpower.net  
737-703-5000

DATE: 1/4/2019

QUOTE: 19019-043-JB

Customer: <u>Palm Beach County</u>	Attn: <u>Jeffrey Childs</u>
Address: <u>20 S Military Trail</u>	
City: <u>West Palm Beach</u>	St: <u>FL</u> Zip <u>33415</u>
Phone: <u>561-712-6320</u>	Email: _____

<b>Site Location:</b>	<u>10170992 Wacker G85 Portable EOC</u>
<b>Site Contact Info:</b>	<u>Jeffrey - 561-712-6320</u>

<b>Unit Model:</b>	<u>G85</u>	<b>Unit Serial:</b>	<u>5731332</u>
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**COMPLAINT**

During annual service battery tested weak and should be replaced along with start relay. Generator controller and display have failed due to water getting in controller. Controller door will be sealed with plexy glass to avoid water getting in. Once all componenets are replaced controller will be programmed and all systems will be tested for proper operation. Battery will be disposed as per EPA guidelines.

QTY	PART NUMBER	DESCRIPTION	PRICE EACH	TOTAL
8		Labor	\$110.00	\$880.00
1	ACD34/78A	Battery Group 34	\$94.95	\$94.95
2	740245	Battery Washers	\$0.58	\$1.16
1	165419	LCD Screen	\$117.13	\$117.13
1	155207	ECM Module	\$1,787.70	\$1,787.70
1	158786	Controller Label	\$27.33	\$27.33
1	153226	12VDC 65 Amp Relay	\$67.79	\$67.79
1		Estimated Shipping	\$100.00	\$100.00
				\$0.00
				\$0.00
			Sub Total	\$3,076.06
			<b>Applicable taxes are not included</b>	
			<b>TOTAL</b>	<b>\$3,076.06</b>

Approved By: \_\_\_\_\_

Date: \_\_\_\_\_

*Thank you for your business*