

GenServe Inc. 100 Newtown Road Plainview, NY 11803 (631) 435-0437 Fax: (631) 435-2273 GenServe Inc. 341 Kaplan Drive - Unit 1 Fairfield, NJ 07004 (973) 614-0091 Fax: (973) 614-0095 GenServe Inc. 115A Twinbridge Drive Pennsauken, NJ 081103 (856) 324-0459 Fax: (856) 438-6616 GenServe Inc. 99 Castleton St. Pleasantville, NY 10570 (914) 305-8671 661

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

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SITE NAME P	alm Beach County EOC		CUST. P.O.#	121422*04104	SERVICE JOB#	0377371	DATE	1/17/2023		
ADDRESS	20 South Military Trail.	Emergency Operation	—— Center, West F	Palm Beach. FL 33415						
CONTACT	Randall Greear		PHONE	561-712-6370						
ENGINE/GE MAKE	NERATOR JD ENGINE		MODEL	4045TF275	ESN	PE4045	5T646863			
SPEC. #	60KW			HOUR METER START		STOP				
ENGINE/GE MAKE	NERATOR WACKER		MODEL	*G85	SN	573133	2			
SPEC.#			F	09 FRANK ZAHN						
JNIT ID:	10170992 Wacker Portabl	е								
CAUSE:	COMPLAINT: FROM Q-01531 (6 Hrs Quoted) - Remove and replace the unit battery (1- GP31) and diagnose the high voltage issue on the controller.  CAUSE: AVR IS MALFUNCTIONING  CORRECTION: QUOTED REPAIR - NOTE, CUSTOMER REPLACE BATTERY  VAILY ACTIVITY: CUSTOMER REPLACE BATTERY, HIGH VOLTAGE IS FROM AVR MALFUNCTIONING, QUOTED REPAIR.  CONNECT TEMPORARY AVR TO COMPLETE. ATTEMPT TO CONNECT TAXA LAPTOP TO CATERPILLAR. ECM NOT RECOGNIZED									
PARTS US REPAIRS PARTS NE	COMPLETED	YES NO  X DAY	S AIR QUALITY	Y	I ALSO AGREE ANY OTHER C PARTS SHIPM OPERATE THE HEREBY ACKN	HORIZE THE REPAIR WORK HEREIN SET FORT THAT YOU ARE NOT RESPONSIBLE FOR LOSS AUSE BEYOND YOUR CONTROL OR FOR ANY ENTS BY THE SUPPLIER OR TRANSPORTER. I I EQUIPMENT FOR THE PURPOSE OF TESTING IOWLEDGED ON THE EQUIPMENT TO SECURE A LIMITED EXPRESS WARRANTY.	OR DAMAGE TO THE EQU DELAYS CAUSED BY UNAV HEREBY GRANT YOU AND, AND/OR INSPECTION. AN	JIPMENT. IN CASE OF FIRE, THEFT OR /AILABILITY OF PARTS OR DELAYS IN /OR YOUR EMPLOYEE PERMISSION TO N EXPRESS MECHANIC'S LIEN IS		

JOB N	IAME		PBC	EOC PORT	ABLE 101	7992		WC	ORK ORDE	R #				TEST	DATE	1/17/	/2023		
GEN N	МАКЕ		WACKER		MODEL		G85		SERIAL		5371332		SPEC						
ENG N	MAKE	J	OHN DEEF	RE	MODEL	4	1045TF27	5	SERIAL	PE	4045T646	863	SPEC						
RATED	VOLTS	480	RATE	) AMPS	100.74	RATE	D KW	67	RATE	D KVA	83.75	RATE	D PF	0.8	LOA	D PF	1		
	MAX	LOAD TES	T 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 1	10 DATA									SAFET	Y DEVICE	DATA	OVE	RCRANK D	ATA	AMB	TEMP
	TIME	CRANK				TI	ME TO AT	S TRANSF	ER						CRAN	K TIME		START	74
	DELAY	TIME TO	RAMP TME TO	Hz OVER	VOLT OVER	ATS EM	ATS LS	ATS CC	ATS FP			OVER	HIGH ENG	LOW OIL	REST	TIME		60 MIN	75
	ENG	ENG	SPEED	SHOOT	SHOOT	AI3 EM	AISLS	AISCC	AISTP			SPEED	TEMP	PRESS	ATTE	MPTS		120 MIN	75
	CRANK	START	0. 222		000.								. =		TOTAL	TIME	0	180 MIN	
COLD										WAR	NING							240MIN	
HOT										SHUT	DOWN							AVG	74.6667
$IIM_{ar{E}}$	ENG HOURS	KW STEP	% KW	VOLTS L1-2	VOTS L2-3	VOLTS L3-1	AVG VOLTS	AMPS L1	AMPS L2	AMPS L3	AVG AMPS	HER1Z	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



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

PEC. #		F09 FRANK ZAH	HN		
UNIT ID: 10170992 Wacker Portable	P	REVENTATIVE MAINTENANCE CHECK	LIST	AAAQ80816	
LUBRICATION WACKER	П	AIR INTAKE	П	ENGINE PERFORMANCE	
Check:	$\Box$	Check:	$\Box$	Check:	
a.Leaks	Р	a. Air cleaner restrictions	Р	a. Governor operation	Р
b. Engine oil level	Р	b. Piping and connections	Р	b. Vibration	Р
c.Governor oil level**	-	c. Air cleaner element/#	Р	c. Mounting hardware*	Р
d.Crankcase breather	P		$\Box$	d. Oil pressure 60	
Change:*	$\vdash$	EXHAUST SYSTEM	$\Box$	e. Water temperature 158	Р
e.Oil filter #	P	Check:	$\vdash$	f. DC alternator	P
f.Engine oil type/qty	Р	a. Leaks	Р	1. Volts 13.9	
g. Governor oil**	$\overline{}$	b. Condensation trap	Р		
Test: Oil sample* # NO	$\overline{}$	c. Wet stacking*	Р	GENERATOR PERFORMANCE	T
	$\vdash$	d. Insulation	$\vdash$	Visual Check:	$\vdash$
COOLING SYSTEM	$\overline{}$	e. Raincap	P	a. Rotor*	Р
Check:	$\vdash$	f. Hangers/Supports/Flex sections	Р	b. Stator*	P
a.Leaks	P	goro copportor for occiono	$\vdash$	c. Excitor/PMG*	+
b. Coolant level	P	BATTERY SYSTEM	$\vdash$	d. Bearings/Grease*	Р
c. Freeze point	$\vdash$	Check:	$\vdash$	e. Diodes/Rectifer*	P
	P	a. Charger voltage NONE	$\vdash$	f. Windings and electrical connections*	<del>  P</del>
d. Radiator air flow e. Louver system	P	1. Float	$\vdash$	g. Voltage Regulator	F
f. Block heater	+++	2. Equalize	$\vdash$	h. Air flow	<del>-</del>
	P		$\vdash$	i. Circuit breaker	P
g. Water pump	P	b. Electrolyte level c. Terminals	P	Record:	Р
h. Hoses	P		Р		+-
i. Belts	P	d. Cables	Р	j. Voltage SELECTABLE	_
j. Fan hub	_	e. Specific gravity  1. High 12.24 @ 886CCA		k. Hertz 60	Р
k. Pulleys	Р	g	Р		$\vdash$
I. Radiator PSI*	P	2. Low	ш	CONDITION-GENSET SYSTEM	$\vdash$
m. Radiator cap PSI	Р	f. Battery type/qty 31 X 1	ш	Check, Clean:	_
n. Antifreeze type/capacity	Р	Clean:	$\vdash$	a. Unusual/unsafe	F
Change:*	$\perp$	g. Terminals/protector	Р	b. Housekeeping/wipe down unit*	Р
o. Water filter** #	$\perp$		oxdot		╙
Test: Antifreeze sample* # NO	$\perp$	ELECTRICAL SYSTEM	Ш	BUILDING LOAD TEST*	
	ш	Visual Check:	ш	Record:	
FUEL SYSTEM	ш	a. Wiring connections	Р	a. Amperage/leg	
Fuel type: DIESEL	ш	b. Instrumentation	Р	b. Voltage/leg	
Check:		c. Chafing	Р	c. Hertz	
a. Fuel leaks	Р	d. Alarms	Р		
b.Lines/connections	Р	e. Prealarms	Р	GENSET	
c. Daytank level/gls		f. Circuit breakers	Р	Check:	
d.Daytank operation		g. Fuses	Р	a. Genset in auto? NO	
e.Transfer pump		h. Remote annunciator		b. Breaker closed?	
f. Main tank level/capacity		Check safety shutdowns:		Beginning Hrs: 5280.85	
g.Vents/overflow	Р	a. Overcrank		Ending Hrs:	
h.Injection pump	Р	b. High water temperature			
i. solenoid valve		c. Low oil pressure	$\Box$	DIESEL EMISSION TEST NJ ONLY:	
Change:*	$\Box$	d. Overspeed	$\Box$	Air Quality:	
Change.			-		-
j.Fuel filter #	Р			CODES:	
	P		$\vdash$	*As needed, specified, or during A service only.**If Equip	$\vdash$

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
UNIT ID	10170992 Portable EOC

	Generator Information	
Model	G85	
Serial	5731332	<b>WO#</b> 1812010
	Engine Information	
Model	4045TF275	<b>DATE</b> 1/7/2019
Serial	PE4045T646863	

UN	טו וו	10170992 Portable EOC		Se	rıaı	PE404516	46863	
PASS	FAIL	MINOR PM CHECKLIST		PASS	FAIL	MAJO	<u>R PM</u>	CI
J		Perform overall visual inspection of Genset/Enclosure		J		Replace engir	ne oil	
1		Record current run hours of Gen-set		J		Replace engir	ne oil filter(s)	)
1		Inspect for rodent intrusion		J		Replace engir	ne fuel filter(	(s) cl
	J	Block Heater Functionality		J		Replace engir	ne fuel/ wate	er se
J		Record static battery VDC		J		Visually inspe	ct for fuel al	lgae
J		Observe coolant level and record coolant protection leve	I	J		Service dry or	oil bath air	filter
J		Pressure test radiator and cap to cap specs				Verify and do	cument Basi	in Ru
1		Disconnect battery charger power				Clean and re-	gap or repla	ice s
J		Clean battery post, and post clamp, inspect cables				Replace point	s, condense	er, ro
		Perform battery acid Electrolyte test				Replace Air F	ilter(s) if app	olicat
J		Load test battery to correct C.C.A.				Take Oil Anal	ysis if applic	able
1		Reconnect battery and seal connection				Take Fuel Sa	mple if appli	cable
1		Reconnect battery charger and record Amps				Load Banking	l	
1		Record Main Tank fuel level				<b>ATS Tes</b>	<u>ting</u>	
		If applicable record day tank level				Check transfe	r emergenc	y to ı
		Record gas PSI or gauge percent for LPG/NG units				Check transfe	er engine coo	oldov
1		Check engine oil level				Check voltage	es at ATS br	reake
1		Check/Clean crankcase vent port		J		Check voltage	es at ATS br	reake
1		Inspect radiator fan belts, adjust if applicable				Check amp d	raws at ATS	brea
J		Inspect condition of coolant radiator and heat exchanger				Check amp d	raws at ATS	brea
1		Inspect air cleaner element and indicator						
		Inspect- spark plugs, points, condenser, rotor and dist. ca	ар				READII	NG:
1		Drain exhaust condensation trap if applicable				54.65/54.85	Hourmete	er R
1		Check Generator Unit for fire hazards				52.00%	Main Tan	าk F
1		Test controller audible alarm and control lamps if applica	ble			n/a	Day Tank	k Fu
1		Inspect and test circuit breaker				n/a	Gas Pres	ssur
1		Test run Gen-set to maximum temp				59	Oil Press	sure
1		Inspect louvers and duct work operation				n/a	Oil Temp	era
1		Inspect exhaust hangers and system for leaks				179	Water Te	emp
		Verify governor or gas components operation				-34	Freeze P	rote
1		Inspect for unusual vibrations, loose or missing fasteners	3			dead	Static VD	C
1		Record generator output voltage				0	Cranking	, VD
		Adjust AVR if necessary				13.5	Engine A	۱t. ۷
J		Inspect governor and lubricate linkage as needed				none	Charge R	₹ate
J		Record max coolant temp reached on gauge						
		Record max oil temp reached if applicable				VAC	L1-L2	L
J		Record lowest oil PSI reached if applicable					240	
1		Record engine alternator output voltage				VAC	L1-N	
J		Verify condition of hoses and tightness of clamps					120	
1		Listen for worn alternator and engine bearings				AMP	L1	

PAS	FAIL	MAJOR PM CHECKLST
J		Replace engine oil
1		Replace engine oil filter(s)
J		Replace engine fuel filter(s) clean strainers and reprime
1		Replace engine fuel/ water seperator(s) and reprime
1		Visually inspect for fuel algae
J		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
П	П	Replace Air Filter(s) 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
<b>7</b>	Check voltages at ATS breaker/ <b>GENERATOR</b>
	Check amp draws at ATS breaker/UTILITY
пп	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	
	240			hz 60
VAC	L1-N	L2-N	L3-N	
	120	121		
AMP	L1	L2	L3	

Technician:

**ROBBIE SINGLETON** 

## NOTES/RECOMMENDATIONS:

 $\ \ \square$  Test emergency shut down devices, return unit to auto

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

Customer: Palm Beach County

ljpower.net 737-703-5000 DATE: 1/4/2019

QUOTE: **19019-043-JB** 

Jeffrey Childs

Attn: \_\_\_\_

A	Address: 20 S	Military Trail							
	City: West	Palm Beach	St:	FL	Zip_	33415			
	Phone:	561-712-6320	Email:						
	Site Locat	ion:	101709	992 Wacker G85	5 Portable	EOC			
	Site Contact I	nfo:		Jeffrey - 561-71	12-6320				
Unit	Model:	G85	<u>.</u> u	Init Serial:		5731332			
			COMPL	AINT					
displ getti	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 N	JMBER	DESCRI	PTION		PRICE EACH	TOTAL		
8			Lab	or		\$110.00	\$880.00		
1	ACD34	•	Battery G	•		\$94.95	\$94.95		
2	7402	245	Battery W	<i>l</i> ashers		\$0.58	\$1.16		
1	1654	119	LCD Sc			\$117.13	\$117.13		
1	1552	207	ECM Mo	odule		\$1,787.70	\$1,787.70		
1	158	786	Controlle	r Label		\$27.33	\$27.33		
1	1532	226	12VDC 65 A	mp Relay		\$67.79	\$67.79		
1			Estimated	Shipping		\$100.00	\$100.00		
							\$0.00		
							\$0.00		
						Sub Total	\$3,076.06		
				Applicable ta	axes are r	ot included			
						TOTAL	\$3,076.06		
Appro	oved By:				Date:				