



Specialists in Engine Power Systems

530 Santa Rosa Dr. Des Plaines, IL 60018 Toll Free: (800) 842-4279 Tel: (630) 834-6000 Fax: (630) 543-4174

Address 2001 S. Prairie Ave.	Phone	
Town Waukesha	State WI	Zip 53189
Person Ordering Repairs Patrick Pade	n Title	

CUSTOMER ORDER NO.	WORK SCHEDULED	MANUFACTURER	MODEL NO.	SERIAL NO.	SPEC, NO.
	2017 / 11 / 02	Caterpillar	3412C	1EZ06907	
PO# ISSUED BY	DATE COMPLETED	SERVICE SUPERVISOR	HOURMETER	DISPATCHED FROM	TERMS
	2017/11/02	Pool	393.6		
WORK ORDERED					
Inspect Unit					
Perform 1-Hour Load	-Bank Test				
		** ** ** *** **************************			
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SERVICE WORK PERFORMED

FOLLOW UP REPAIRS NEEDED

	· · · · · · · · · · · · · · · · · · ·	

I hereby authorize the above repair work to be done along with necessary materials. You and your employees may operate above equipment for purposes of testing, inspection or delivery at my risk. An express mechanic's lien is acknowledged on above equipment to secure the amount of repairs thereto. You are not responsible for loss of or damage to the motor equipment or its contents due to collision not due to your negligence, or due to fire, theft or other casualty regardless of whether or not such fire, theft or other casualty is due to your negligence, and you and your agents are hereby released from any and all claims for such loss and damage.

Customer

Serviceman Randy Pool

___ Branch

Authorized By _____ Date _____

Date Work Completed 2017.11.02

Solution EQUIPMENT ENERGY SYSTEMS 530 Santa Rosa Dr, Des Plaines, IL 60018 Tel: (630) 834-6000 Fax: (630) 543-4174

 RO# 4428
 Customer Central States Diesel Generators

 PO#
 Address 2001 S. Prairie Ave. Waukesha, WI 53189

 Date 2007.11.02
 Attr.

 Location of Work:
 Cust# 2164

 Engine Make: Caterpillar
 Model: 3412C

 S.N: 1EZ06907
 Hours: 393.6

 Type of Service Inspection/ Load-Bank Test
 Total Miles R/T to site:

AIR INTAKE SYSTEM			LUBE SY	STEM		
Pre-cleaner element	Clean/Replace	N/A	Engine oil		Change	N/A
Air cleaner filter element	Clean/Replace	OK	Oil filter(s)		Change	N/A
Air cleaner, oil bath	Change	<u>N/A</u>	Oil filter se		Replace	N/A
COOLING SYSTEM			Oil cooler	rainer element	Clean Drain	<u>N/A</u> N/A
J.W. cooling system level	Check	OK	Lube oil h	· · ·	Inspect	OK
J.W. cooling system protection (-38	Prelube pi		Inspect	N/A
J.W. water pump	Lubricate	OK	Crankcase		Clean	OK
J.W. water pump idler pulley	Lubricate	<u>N/A</u>	Oil separa		Clean	OK
J.W hoses(s)	Inspect	OK		ie oil level, make-up ta		N/A
J.W. belt(s)	Inspect	OK	Crankcase		Check	OK
Aux cooling system level	Check	<u>N/A</u>	Engine oil	analysis	Sample	N/A
Aux cooling system protection (F Aux water pump	P) Check Lubricate	N/A N/A			•	
Aux hose (s)	Inspect	N/A	Control lin		Clean/Lubricate	ОК
Aux hose (s) Aux belt(s)	Inspect	N/A N/A	Governor		Lubricate	OK OK
Radiator core	Inspect	OK		synchronizer or speed		OK
Radiator bearing	Inspect	0K		iping/silencer/rain cap	Check	OK OK
Radiator cap	Inspect	OK	Block heat		Check	NO LEAKS
Coolant analysis	Sample	N/A	Belt tensio		Check	OK
•	Sumpto		Battery ter		Clean	OK
FUEL SYSTEM (DIESEL)			Battery ele		Check/Fill	OK
Injectors	Inspect	OK		anking voltage	Check	OK OK
Injection pump	Inspect	<u>OK</u>		arger voltage	Check	OK
Fuel solenoid	Check	OK OK		anking amperage	Check	OK
Fuel filters	Clean/Replace	OK	Valves cle	• • •	Adjust	N/A
Fuel lines	Inspect	OK OK		er gaskets	Replace	N/A
Fuel transfer pump Fuel level	Inspect Inspect	OK N/A	Safety cor	itrols	Test	ОК
Fuel analysis	Sample	<u> </u>	Turbochar	ger	Inspect	ОК
,	Sample	IN/A	Engine mo	ounting	Check	OK
FUEL SYSTEM (GAS)			Generator	bearings	Lubricate	ОК
Hand throttle open	Check	<u>N/A</u>	(Follow ma	anufacture maintenanc	e guide)	
Proper carb adjustment	Check	<u>N/A</u>	Test run u	nit, apply load if possib	le (Customer to sur	only operator)
Positive fuel pressure	Check	<u>N/A</u>		it for any unusual nois		phy operatory
Regulator operation	Check	N/A	.	-		
Electric shut off valve	Check	<u>N/A</u>	Misc:		<u> </u>	
IGNITION SYSTEM						
Spark plugs	Replace/Regap	N/A				
Ignition module harness	Tighten	N/A	Misc:			
Ignition timing	Check	N/A				
Ignition cables, primary	Inspect	N/A	IV(ISC:			
and secondary connections			Misc:			
		-				
Tech	nician initials = Se	rvice complete	NFR = Needs fol	low up repair NA :	= Not applicable	
Person Ordering Repairs:				Title:	· · · · · · · · · · · · · · · · · · ·	<u> </u>
Signature:				Date:		
				Duic.		
FIELD SERVICE NOTES:						
					· · · · · · · · · · · · · · · · · · ·	
RECOMMENDED FOLLOW-UP	REPAIR:					
COMPRESSION RESULTS:					····	
<u>1 L/B 2 L/B</u>	3 L/B	4 L/B	5 L/B	6 L/B	7 L/B	8 L/B
					7 0 0	0.00
<u>1 R/B 2 R/B</u>	3 R/B	4 R/B	5 R/B	6 R/B	7 R/B	8 R/B
1 R/B 2 R/B Technician Signature: Randy Pa		4 R/B	5 R/B	6 K/B	•••••••••••••••••••••••••••••••••••••••	8 R/B e: 2017.11.02
Technician Signature: Randy Pe				6 R/B	•••••••••••••••••••••••••••••••••••••••	
		4 R/B TIME OUT:		6 R/B	•••••••••••••••••••••••••••••••••••••••	

CHARLES EQUIPMENT ENERGY SYSTEMS

LOAD BANK TESTING

Customer: Central States Diesel Generators CSDG STK#2164

Address:	2001 S Prairie Ave (Door 26)
City/ State/ Zip	Waukesha/ WI/ 53189
Contact:	Patrick Paden
Phone:	262-955-7655

Engine Make/ Model:	Caterpillar 3412
Engine Spec/ Serial:	1EZ06907
Unit Make/ Model:	Caterpillar 3412

	5 Min.	15 Min.	30 Min.	45 Min.	1 Hour	Cool Down
Eng Hours	393.6	393.8	394.1	394.3	394.6	394.7
Hertz/Cycles	60	60	60	60	60	60
Voltage PH1	479	479	479	479	479	479
PH2	481	481	481	481	481	481
PH3	478	479	478	479	478	478
Amperage PH1	0	902	903	903	903	0
PH2	0	903	902	902	903	0
PH3	0	903	902	903	902	0
Kilowatts	0	750	750	750	750	0
Oil Pressure	65	63	63	63	63	64
Oil Temperature						
Coolant Temperature	175°F	177°F	177°F	177°F	177°F	175°F
Man Vac./Press. L/B						
Man Vac./Press. R/B						
L/B Exhaust Temp						
R/B Exhaust Temp						
Exhaust Temperature	289°F	548°F	635°F	632°F	633°F	228°F
DC Voltage	27.1	27.1	27.1	27.1	27.1	27.1
Natural Gas Pressure	N/A	N/A	N/A	N/A	N/A	N/A
Diesel Fuel Level			REMOTE F	UEL TANK		
Room Temperature	N/A	N/A	N/A	N/A	N/A	N/A
Ambient Temperature	41°F	41°F	42°F	42°F	42°F	43°F

Cable Length: _____ Cable/ Leg: _____

Connection Point:

Technician Signature: Randy P.

Customer Signature:

R#: 4428 **Test Date** 11/2/2017

Voltage:	277/480
Amperage:	1129
Kilowatts:	750
Power Factor	0.8