

Work Order

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WO No.:	8080	Open / History:	H
WO Date:	10/02/2019	Job Status:	Completed
Sched. Date:	10/09/2019	Status Change Date:	2019.10.23 (INV)
Completed Date:	10/23/2019	Assign To Type:	Technician
Bill With Work Order:		Assign To:	(RANDY POOL)
Follow Up From WO#:	0		
Customer P.O. No.:		Asset ID:	
CEES Quote:		Unit #:	2547
		Engine Make:	JOHN DEERE
Site:	CENTRAL STATES DIESEL GENERATORS	Engine Model No.:	6081AF001
Site_addr:		Engine Serial No.:	
City:		Engine Spec:	
State:		Unit Make:	KOHLER
Zip:		Unit Model No.:	200ROZJ
Requested By:	PATRICK PADEN	Unit Serial No.:	708611
Req. Telephone:		Unit Spec:	
Req. E-mail:		Engine Hours:	0
Bill To: (Invoice):	CENTRAL STATES DIESEL GENERATORS		
Account #:	1121	Round Trip Miles:	0
Perform For Type:	Customer	Tolls Paid:	0
Perform For:	CENTRAL STATES DIESEL GENERATORS (CENTRAL STATES DIESEL GENERATORS)		
		Time In:	
WO Type:	Load Bank	Time Out:	
Problem Type:	INSPECT AND LOAD BANK FOR SALE		
Brief Description:	INSPECT AND LOAD BANK FOR SALE	Signed Signature:	
Customer Complaint:	PERFORM INSPECTION PERFORM 1-HOUR LOAD-BANK TEST	Kilowatts:	205
		Voltage:	480
		Cable Run (ft):	0
Work Performed:	<p>10-9-19 (RANDY/DALE) CONNECTED FUEL SUPPLY, LOAD BANK AND STARTING BATTERIES. TEST RAN UNIT, NO A.C. VOLTAGE OUTPUT. FOUND DEFECTIVE VOLTAGE CONTROL BOARD. BORROWED WORKING BOARD FROM STOCK UNIT. TESTED AT 100% LOAD. ENGINE RUNS VERY ROUGH. ABORTED TEST UNTIL PROBLEM RESOLVED.</p> <p>10-10-19 (RANDY) INVESTIGATED ROUGH RUNNING ENGINE. ENGINE NOW STALLS AT 50% LOAD. EXCESSIVE WHITE SMOKE FROM EXHAUST. REPLACED FUEL FILTER. PROBLEM STILL EXISTS. INJECTION PUMP IS DELIVERING FUEL TO EACH CYLINDER. PUMP TIMING APPEARS TO BE INCORRECT.</p> <p>10-11-19 (RANDY) REMOVED FRONT ENGINE COVER TO INSPECT INJECTION PUMP DRIVE GEAR. O.K. REMOVED AND CLEANED ALL INJECTION LINES FROM INJECTION PUMP TO FUEL INJECTORS. REMOVED, CLEANED AND REINSTALLED INJECTION PUMP CHECK VALVES. FOUND INJECTION PUMP TIMING LOCK BOLTS LOOSE. INJECTION PUMP TIMING NEEDS TO BE SET. NEED TIMING SPECS AND PROCEDURE INFO.</p> <p>10-15-19 (RANDY) REMOVED INJECTION PUMP GEAR AND RE-TAPPED DAMAGED DISK MOUNTING HOLE. REINSTALLED GEAR AND PERFORMED INJECTION PUMP TIMING PROCEDURE. TEST RAN ENGINE AT FULL LOAD.</p> <p>10-17-19 (RANDY) PERFORMED 1-HOUR LOAD-BANK TEST.</p>		
Follow-Ups:			



Customer: Central States Diesel Generators STK#2547
 Address: 2001 S Prairie Ave.
 City/ State/ Zip Waukesha, WI 53189
 Contact: Patrick Paden
 Phone: 262-955-7655

R#: 8080
 Test Date 10-17-19

Engine Make/ Model: John Deere 6081AF001
 Engine Spec/ Serial: RG6081A138719
 Unit Make/ Model: Kohler ROZJ-SC
 Unit Spec/ Serial: 708611

Voltage: 277/480
 Amperage: 309
 Kilowatts: 205
 Power Factor 0.8

	5 Min.	15 Min.	30 Min.	45 Min.	1 Hour	Cool Down
Eng Hours	320.8	321	321.3	321.5	321.8	321.9
Hertz/Cycles	60	60	60	60	60	60
Voltage PH1	483	484	483	483	483	483
PH2	484	484	483	483	484	484
PH3	483	484	483	483	483	483
Amperage PH1	0	244	245	245	245	0
PH2	0	245	245	246	244	0
PH3	0	244	245	244	245	0
Kilowatts	0	205	205	205	205	0
Oil Pressure	45	41	40	40	40	42
Oil Temperature						
Coolant Temperature	180°F	183°F	183°F	183°F	183°F	182°F
Man Vac./Press. L/B						
Man Vac./Press. R/B						
L/B Exhaust Temp						
R/B Exhaust Temp						
Exhaust Temperature						
DC Voltage	28.2	28.2	28.2	28.2	28.2	28.2
Natural Gas Pressure						
Diesel Fuel Level						
Room Temperature						
Ambient Temperature	68°F	68°F	68°F	69°F	69°F	69°F

Technician Signature: Randy Pool

Customer Signature: _____

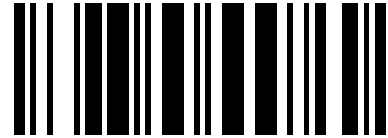
Sales Order

10/23/2019

Charles Equipment

Charles Equipment Energy Systems, LLC
530 Santa Rosa Drive
Des Plaines, IL 60018
Phone: (630) 834-6000
Fax: (630) 543-4174
Email: cees@charlesequipment.com

8080



Bill To:

CENTRAL STATES DIESEL GENERATOR
2001 S. PRAIRIE AVE
WAUKESHA, WI 53189

Customer: CENTRAL STATES DIESEL GENERATOR

Ship To:

CENTRAL STATES DIESEL GENERATOR
2001 S. PRAIRIE AVE
WAUKESHA, WI 53189

Contact: CENTRAL STATES DIESEL GENERATO
PO Number: UNIT# 2547

Notes

INSPECT UNIT FOR PROPER OPERATION TEST RAN UNIT, FOUND NO AC VOLTAGE OUTPUT AND DEFECTIVE VOLTAGE CONTROL BOARD. ENGINE ALSO RUNS ROUGH AND SMOKES. REPAIRED UNIT AS NEEDED AND PERFORMED LOADBANK TEST


Seller	Payment Terms	FOB Point	Carrier	Ship Service	Requested Ship Date
Debbie	Net 10	Origin	Will Call		10/23/2019

Item #	Type	Number / Description	Unit Price	Qty Ordered	Total Price
1	Sale	SFT/M/WI - STRAIGHT FIELD LABOR - WI	\$ 115.00	20 hr	\$ 2,300.00

This invoice is based on CEES standard conditions of sale, whether attached hereto or not, a copy of which is on file at the CEES corporate office. CEES hereby objects to any additional or different terms set forth in any request for quotation, specification, purchase order or any other document of purchaser or provided by purchaser. Acceptance of additional or different terms must be specifically agreed to in writing by CEES. All credit card payments will be charged a 3% administration fee.

Subtotal: \$ 2,300.00
Sales Tax: \$ 0.00
Total: \$ 2,300.00

Work Order

			
WO No.:	8081	Open / History:	H
WO Date:	10/02/2019	Job Status:	Completed
Sched. Date:	10/16/2019	Status Change Date:	2019.10.23 (INV)
Completed Date:	10/23/2019	Assign To Type:	Technician
Bill With Work Order:		Assign To:	(RANDY POOL)
Follow Up From WO#:	0	Asset ID:	
Customer P.O. No.:		Unit #:	2550
CEES Quote:		Engine Make:	PERKINS
Site:	CENTRAL STATES DIESEL GENERATORS	Engine Model No.:	
Site_addr:		Engine Serial No.:	
City:		Engine Spec:	
State:		Unit Make:	OLYMPIAN
Zip:		Unit Model No.:	D125P1
Requested By:	PATRICK PADEN	Unit Serial No.:	NAT01045
Req. Telephone:		Unit Spec:	
Req. E-mail:		Engine Hours:	0
Bill To: (Invoice):	CENTRAL STATES DIESEL GENERATORS	Round Trip Miles:	0
Account #:	1121	Tolls Paid:	0
Perform For Type:	Customer		
Perform For:	CENTRAL STATES DIESEL GENERATORS (CENTRAL STATES DIESEL GENERATORS)		
		Time In:	
WO Type:	Load Bank	Time Out:	
Problem Type:	INSPECT AND LOAD BANK FOR SALE	Signed Signature:	
Brief Description:	INSPECT AND LOAD BANK FOR SALE	Kilowatts:	
Customer Complaint:	PERFORM INSPECTION PERFORM 1-HOUR LOAD-BANK TEST	Voltage:	
Work Performed:	10-16-19 (RANDY) PERFORM INSPECTION. ENGINE DOES NOT CRANK. FOUND FRAYED WIRING TO ENGINE INTERFACE MODULE. REPAIRED WIRING. ENGINE NOW CRANKS. 10-17-19 (RANDY) PERFORMED 1-HOUR LOAD-BANK TEST.	Cable Run (ft):	0
Follow-Ups:			



Customer: Central States Diesel Generators STK#2550
 Address: 2001 S Prairie Ave.
 City/ State/ Zip Waukesha, WI 53189
 Contact: Patrick Paden
 Phone: 262-955-7655

R#: 8081
 Test Date 10-17-19

Engine Make/ Model: Perkins 2332/1800
 Engine Spec/ Serial: YD51130*U824880L*
 Unit Make/ Model: Olympian D125P1
 Unit Spec/ Serial: OLY00000PNATO1045

Voltage: 120/240
 Amperage: 521
 Kilowatts: 125
 Power Factor 1

	5 Min.	15 Min.	30 Min.	45 Min.	1 Hour	Cool Down
Eng Hours	42.2	42.5	42.7	43	43.2	43.3
Hertz/Cycles	60	60	60	60	60	60
Voltage PH1	241	241	241	241	241	241
PH2	0	0	0	0	0	0
PH3	0	0	0	0	0	0
Amperage PH1	0	521	520	520	521	0
PH2	0	522	520	521	521	0
PH3	0	0	0	0	0	0
Kilowatts	0	125	125	125	125	0
Oil Pressure	90	82	75	70	65	70
Oil Temperature						
Coolant Temperature	180°F	185°F	185°F	185°F	185°F	183°F
Man Vac./Press. L/B						
Man Vac./Press. R/B						
L/B Exhaust Temp						
R/B Exhaust Temp						
Exhaust Temperature						
DC Voltage	14	14	14	14	14	14
Natural Gas Pressure						
Diesel Fuel Level						
Room Temperature						
Ambient Temperature	44°F	44°F	45°F	45°F	45°F	46°F

Technician Signature: Randy Pool

Customer Signature: _____

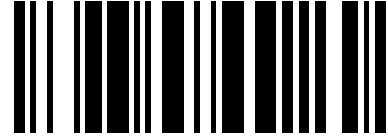
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10/23/2019

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530 Santa Rosa Drive
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Fax: (630) 543-4174
Email: cees@charlesequipment.com

8081



Bill To:

CENTRAL STATES DIESEL GENERATOR
2001 S. PRAIRIE AVE
WAUKESHA, WI 53189

Customer: CENTRAL STATES DIESEL GENERATOR

Ship To:

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2001 S. PRAIRIE AVE
WAUKESHA, WI 53189

Contact: CENTRAL STATES DIESEL GENERATO
PO Number: UNIT# 2550

Notes

PERFORMED INSPECTION, REPAIRED WIRING, PERFORMED LOADBANK TEST.

Seller	Payment Terms	FOB Point	Carrier	Ship Service	Requested Ship Date
Debbie	Net 10	Origin	Will Call		10/23/2019

Item #	Type	Number / Description	Unit Price	Qty Ordered	Total Price
1	Sale	SFT/M/WI - STRAIGHT FIELD LABOR - WI	\$ 115.00	6.5 hr	\$ 747.50

This invoice is based on CEES standard conditions of sale, whether attached hereto or not, a copy of which is on file at the CEES corporate office. CEES hereby objects to any additional or different terms set forth in any request for quotation, specification, purchase order or any other document of purchaser or provided by purchaser. Acceptance of additional or different terms must be specifically agreed to in writing by CEES. All credit card payments will be charged a 3% administration fee.

Subtotal: \$ 747.50
Sales Tax: \$ 0.00
Total: \$ 747.50