GREY

WARDEN ELECTRIC CO., INC.

PADUCAH, KY MURRAY, KY

JOB NO. 163453

ACCT	NAME	DATE RECD.	EMPL
	MARQUETTE TRANS	1/24/24	218

CONTACT: JERRY | PHONE | CELL | PHONE | CELL

EMAIL ADDRESS: M/V Marquette Warrior | ESTIMATE BY PHONE | ESTIMATE BY TEXT | ESTIMATE BY EMAIL

ADDRESS | CITY | STATE | ZIP | LOCATION: Bldg 2 Floor

ITEM: GENERATOR | P.O. NO. | MFR. WAR | WEC WAR

MAKE	MODEL NO.	SERIAL NO.	CODE	TYPE	D/C
MARATHON	431PSL6256	WA-572350-0210			

H.P.	RPM	FRAME	PHASE	HZ.	ENCL.	VOLTS	AMPS
186	1800	431	3	60	IP22	480	280

MOUNT: HORIZ. VERT. GEAR | SEC. V. | SEC. A. | ANCILLARY FITTINGS: MURPHY Control Box

SERVICE REQUESTED | BST. ~~X~~ | REG. | CONDITION RECEIVED | RUSH | EMER. | PROMISED | EST. FEE PAID | INVOICE

160 INSPECTION

RECEIVED		ASSEMBLED
✓	BASE	
✓	EYE BOLT	
✓	TERMINAL BOX	
	✓ COVER ___ GASKET	
	___ LEFT ___ RIGHT	
	___ UP ___ DOWN	
	___ SEALED LEADS	
NO	PULLEY	
NO	COUPLING	
NO	SPROCKET	
NO	GEAR	
NO	KEY	
NO	NUT	
NO	BRAKE ____ V.	
NO	HTRS. ____ V.	
NO	WDG. THERMS	
✓	NAMEPLATE	
NO	U. L. PLATE	
12	NO. OF LEADS	
24"	LEAD LENGTH	
1/2	LUG HOLE SIZE	
230Y	~~480~~ VOLTS HOOKED	
✓	FAN	
NO	SHAFT SLINGER	
NO	BRUSHES	
—	SHAFT TURN	
✓	END PLAY	
NO	SHAFT DAMAGE	
Good	MEG STATOR	
	OHM READINGS	
1 PH.	____ ____	
3 PH.	.1 .1 .1	
	AMPS @ 100% OF FULL VOLTAGE	
____/____/____		
____	1 PH ROTOR TEST	
____	RPM	
____	VIBRATION DE	
____	VIBRATION ODE	
____ ____		
	SURFACES CLND/PAINTED	
	NAMEPLATE CLEANED	

MATERIAL LIST

LINE	STK	ORD	REC	QTY	PART NUMBER	DESCRIPTION	EACH	TOTAL
1					Recondition	All Winding	$	$ 1855
2	✓				6312 2RS	~~6311~~ Bearing	$	$
3					MACHINE	Endbell	$	$ 529
4				+	~~1217-39~~	~~Sleeve~~	$	$
5	✓			1	1512-50	Sleeve	$	$
6				☆	Connect For 480 Volts on		$	$
7						Assembly	$	$
8							$	$
9							$	$
10							$	$
					HOURS NEEDED TO ASSEMBLE OR COMPLETE JOB		$	$

ESTIMATE & REPLY

REPAIR | AMOUNT: 2360.64 | ACCEPT: ✓ | TIME

REPLACE | OPTION # 1 | OPTION # 1 COST | ACCEPT | REJECT | OPTION # 2 | OPTION # 2 COST | ACCEPT

ESTIMATE DATE: 1/25 | TO: Jeff

REPLY DATE: 1/27 | FROM: Jeff

PICK UP

DELIVER

SCRAP

ORDERED PARTS

NO.	QTY	VENDOR	OUR P.O. #	DATE ORDERED	DATE RECEIVED	COST

NOTES: Wire 480 Y

DRIVE END

EMPL 160

ROTOR

	PASS	FAIL	FINAL
COUPLING FIT	✓		OD
SEAL FIT UPPER	N/A		OD
JOURNAL	N/A		OD
SEAL FIT LOWER	N/A		OD
ROTOR TIGHTNESS	✓		
KEYWAY	N/A		X
GROWLER TEST			

ENDSHIELD

BEARING BORE	N/A		ID
WAVE SPRINGS			ID
CRACKS / DAMAGE			

OPPOSITE DRIVE END

EMPL 160

ROTOR

	PASS	FAIL	FINAL
COUPLING FIT	N/A		OD
SEAL FIT UPPER	N/A		OD
JOURNAL	✓		OD
SEAL FIT LOWER	N/A		OD
ROTOR TIGHTNESS	✓		
KEYWAY	N/A		X
GROWLER TEST			

ENDSHIELD

BEARING BORE		✓	ID
WAVE SPRINGS			ID
CRACKS / DAMAGE			

MOTORS

EMPL 160

	PASS	FAIL
SURGE	✓	
MEGGER 1	✓	
HI - POT	✓	
MEGGER 2		
HEATERS		
OVERLOADS		
LUBRICANT		
WIND. RESIS	.1	
SURGE ASSY.		
RPM		
BEARING TEMP	DE	ODE

GENERATORS

EMPL 160

	OHM IN			OHM OUT		
EX. FIELD	17.7					
EX. ARM.	.2	.2	.2			
MAIN FIELD	.1	.1	.1			
MAIN ARM.	.7					
VOLT DROP	30.6					
	30.8					
	30.9					
	31.0					
VOLTAGE						
RPM						

PUMPS

EMPL

	PASS	FAIL
PRESSURE TEST		
	PSI	TIME

CAUSE OF FAILURE

EMPL

WELDERS

EMPL

	A/C	D/C
OCV		
LOAD BANK VOLTS		
LOAD BANK AMPS		
	PASS	FAIL
A/C POWER		

NOTES

EMPL 160

Diodes CHecked Good

OK TO SHIP

EMPL

WARDEN ELECTRIC CO., INC.

PADUCAH, KY — MURRAY, KY

JOB NO. 163453

ACCT	NAME	DATE RECD.	EMPL
	MARQUETTE TRANS	1/21/20	218

CONTACT: JERRY — PHONE — CELL

EMAIL ADDRESS: M/V Marquette Warrior — ESTIMATE BY PHONE — ESTIMATE BY TEXT — ESTIMATE BY EMAIL

ADDRESS — CITY — STATE — ZIP — LOCATION: Bldg 2 Floor

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186	1800	431	3	60	IP22	480	280

MOUNT: HORIZ. VERT. GEAR — SEC. V. — SEC. A. — ANCILLARY FITTINGS: MURPHY CONTROL BOX

SERVICE REQUESTED — BST. ~~X~~ — RUSH — REG. — EMER. — CONDITION RECEIVED — PROMISED — EST. FEE PAID — INVOICE

INSPECTION 160

RECEIVED		ASSEMBLED
✓	BASE	✓
✓	EYE BOLT	✓
✓	TERMINAL BOX	✓
	✓ COVER ___ GASKET	
	___ LEFT ___ RIGHT	
	___ UP ___ DOWN	
	___ SEALED LEADS	
NO	PULLEY	NO
NO	COUPLING	NO
NO	SPROCKET	NO
NO	GEAR	NO
NO	KEY	NO
NO	NUT	NO
NO	BRAKE ____ V.	NO
NO	HTRS. ____ V.	NO
NO	WDG. THERMS	NO
✓	NAMEPLATE	✓
NO	U. L. PLATE	NO
12	NO. OF LEADS	12
24"	LEAD LENGTH	24"
1/2	LUG HOLE SIZE	1/2
230Y ~~480~~	VOLTS HOOKED	480
✓	FAN	✓
NO	SHAFT SLINGER	NO
NO	BRUSHES	NO
—	SHAFT TURN	✓
✓	END PLAY	NO
NO	SHAFT DAMAGE	NO
GOOD	MEG STATOR	GOOD

OHM READINGS

1 PH.	____	____	
3 PH.	.1	.1	.1

AMPS @ 100% OF FULL VOLTAGE

____ / ____ / ____

1 PH ROTOR TEST	
RPM	
VIBRATION DE	
VIBRATION ODE	
____ ____	
SURFACES CLND/PAINTED	
NAMEPLATE CLEANED	

MATERIAL LIST

LINE	STK	ORD	REC	QTY	PART NUMBER	DESCRIPTION	EACH	TOTAL
1					Recondition	All Winding	$	$ 1855
2	✓				6312 2RS	~~6311~~ Bearing	$	$
3					MACHINE	Endbell	$	$ 529
4				~~1~~	~~1217-39~~	~~Sleeve~~	$	$
5	✓			1	1512-50	Sleeve	$	$
6				☆	Connect For 480 Volts on		$	$
7						Assembly	$	$
8							$	$
9					Complete	G3	$	$
10							$	$
					HOURS NEEDED TO ASSEMBLE OR COMPLETE JOB		$	$

ESTIMATE & REPLY

REPAIR	AMOUNT	ACCEPT	REPLACE	OPTION # 1	OPTION # 1 COST	ACCEPT	REJECT
	2360.64	✓					
	TIME			OPTION # 2	OPTION # 2 COST	ACCEPT	

ESTIMATE DATE: 1/25 — TO: Jerry

REPLY DATE: 1/27 — FROM: Jeff

PICK UP
DELIVER
SCRAP

ORDERED PARTS

NO.	QTY	VENDOR	OUR P.O. #	DATE ORDERED	DATE RECEIVED	COST

NOTES: WIRE 480 Y

DRIVE END

EMPL 160

ROTOR

	PASS	FAIL	FINAL
COUPLING FIT	✓		OD
SEAL FIT UPPER	N/A		OD
JOURNAL	N/A		OD
SEAL FIT LOWER	N/A		OD
ROTOR TIGHTNESS	✓		
KEYWAY	N/A		X
GROWLER TEST			

ENDSHIELD

BEARING BORE	N/A		ID
WAVE SPRINGS			ID
CRACKS / DAMAGE			

OPPOSITE DRIVE END

EMPL 160

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COUPLING FIT	N/A		OD
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JOURNAL	✓		OD
SEAL FIT LOWER	N/A		OD
ROTOR TIGHTNESS	✓		
KEYWAY	N/A		X
GROWLER TEST			

ENDSHIELD

BEARING BORE		✓	ID
WAVE SPRINGS			ID
CRACKS / DAMAGE			

MOTORS

EMPL 160

	PASS	FAIL
SURGE	✓	
MEGGER 1	✓	
HI - POT	✓	
MEGGER 2	✓	
HEATERS		
OVERLOADS		
LUBRICANT		
WIND. RESIS	.1	
SURGE ASSY.	✓	
RPM		
BEARING TEMP	DE	ODE

GENERATORS

EMPL 160

	OHM IN			OHM OUT		
EX. FIELD	17.7			17.7		
EX. ARM.	.2	.2	.2	.2	.2	.2
MAIN FIELD	.1	.1	.1	.1	.1	.1
MAIN ARM.	.7			.7		
VOLT DROP	30.6					
	30.8					
	30.9					
	31.0					
VOLTAGE	479		479		479	
RPM	1800					
HERTZ	60.02					

PUMPS

EMPL

	PASS	FAIL
PRESSURE TEST	PSI	TIME

CAUSE OF FAILURE

EMPL

WELDERS

EMPL

	A/C	D/C
OCV		
LOAD BANK VOLTS		
LOAD BANK AMPS		
	PASS	FAIL
A/C POWER		

NOTES

EMPL 160

Diodes CHECKED Good

OK TO SHIP

✓

EMPL 160