

AC Recondition As Found

Big River Steel (004767)

2027 E State Highway 198 Osceola, AR 72370

Location:	Motorshop	
Serial Number:	1048013762	
Description:20hp Ac Motor		

Hi-Speed Job Number:	149755
Manufacturer:	WEG
Product Number:	02018ET3E256TC-S
Serial Number:	1048013762
HP/kW:	20 (HP)
RPM:	1765 (RPM)
Frame:	254/6TC
Voltage:	230 / 460
Current:	49.4/24.7 (Amps)
Phase:	Three
Hz:	60 (Hz)
Service Factor:	1.15
Enclosure:	TEFC
# of Leads:	12
J-box Included:	Complete
Coupling/Sheave:	None
Date Received:	03/13/2023
Bearing RTDs:	No
Stator RTDs:	No
Repair Stage:	Teardown Inspection
Rewind:	Yes
Heaters:	No
Winding Type :	Random Wound
Bearing Type:	Rolling Element

Priorities Found: 🔵 2 - High

🔵 11 - Good

Overall Condition

- 1. Report Date
- 2. Nameplate Picture



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FolderID: 149755 FormID: 16222487

03/13/2023

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3. Photos of all six sides of the machine.













4. Describe the Overall Condition of the Equipment as Received New endbell required and rewind

		New chaben required and remina	
In	itial I	Mechanical/Electrical	
	5.	Does Shaft Turn Freely?	(Yes) Yes
	6.	Does Shaft Have Visible Damage?	(No) No
	7.	Assembled Shaft Runout	0.0005 Inches
	8.	Assembled Shaft End Play	0.003 inches
	9.	Air Gap Variation <10%	No provisions for measure
	10.	Lead Condition	(P) Pass

	11.	Lead Length			10 Inches	P12
	12.	Frame Condition			good	
	13.	Fan Condition			(P) Pass	
	14.	Broken or Missing Components		One	end bell bolt broke	
	•	One end bell bolt broke				
In	itial I	Electrical Inspection				o
	15.	Insulation Resistance/Megger			0 Megohms	P19
	16.	Winding Resistance				
		1-2	1-3	2-3		
		0	0	0		
	17.	Perform Surge Test			(F) Fail	
	18.	Stator Condition			needs rewind	
Μ	echa	nical Inspection				0
	19.	Drive End Bearing Brand			C&U	

19. Drive End Bearing Brand





28. Opposite Drive End Bearing Number-

6208z



29.	Opposite Drive End Bearing Qty.	1
30.	Opposite Drive End Bearing Type	(Ball) Ball Bearing

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6309z

	31.	Opposite Drive End Lubrication Type	(Grease) Grease Lubricated	
	32.	Opposite Drive End Bearing Insulation or Grounding Device?	none	
	33.	Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?	wavy washer	P38
	34.	Opposite Drive End Bearing Condition	Good	
	36.	Opposite Drive End Seal	v ring seal	P41
R	otor l	Inspection		
	37.	Rotor Type/Material	(Squirrel Aluminum) Squirrel Cage Aluminum Die Cast	
	38.	Growler Test	(Pass) Pass	
	39.	Number of Rotor Bars	38	

	40.	Rotor Condition		Good	
	41.	List the Parts needed for the Rep	air Below		
		Rewind Stator 6309z			
		6208z			
	42.	Signature of Technician that Disa	ssembled Motor	Brandon Sullins	
		Ω . μ	1		
		16 12 /			
	6	ANGE			
	V				
M	echa	nical Fits- Rotor			0
	43.	Shaft Runout		0.0005 inches	
	44.	Rotor Runout			
		Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing	
		0.001	0.001	0.002	
	45.	Coupling Fit Closest to Bearing H	lousing		P58
		0 Degrees	90 Degrees	120 Degrees	
		1.625	1.625	1.625	
10.00	-				
10	No.				
2	電 /				
1924					
	市代				
100	2				
3	1				
	-				
		100000000000000000000000000000000000000			
	46.	Coupling Fit Closest to the end of	the Shaft		
		0 Degrees	60 Degrees	120 Degrees	
		1.625	1.625	1.625	
		-	-	-	

	47.	Drive End Bearing Shaft Fit			P60
		0 Degrees	60 Degrees	120 Degrees	
		1.7717	1.7717	1.7717	
		45mm=1.7716. Tolerance is 1.7718-	1.7722		
	48.	Drive End Bearing Shaft Fit Condi	tion	(P) Pass	Dea
	49.	Opposite Drive End Bearing Shart			P02
		0 Degrees	60 Degrees	120 Degrees	
	_	1.5748	1.5748	1.5748	
	50.	Opposite Drive End Bearing Shaft	Fit Condition	(P) Pass	
	51.	Shaft Air Seal Fits			
		Drive End Air Seal	Opposite Drive End Air Seal		
		good	good		
Me	cha	nical Fits- Bearing Housings			0

52.	Drive End - Endbell Bearing Fit			P65
	0 Degrees	60 Degrees	120 Degrees	
	3.938	3.938	3.938	
	100mm=3.9370. Tolerance is 3.9370	-3.9379		
53.	Drive End - Endbell Bearing Fit Co	ondition	(P) Pass	
54.	Opposite Drive End - Endbell Bea	ring Fit		P67
	0 Degrees	60 Degrees	120 Degrees	
	Bomm=3.1496. Tolerance is 3.1496- enough for bore and bush	3.1503. Deep grove in endbell requires i	eplacement sidewall is not thick	
5 5.	Opposite Drive End - Endbell Bea	ring Fit Condition	(F) Fail	
56.	Bearing Cap Condition	-		
	Drive End Bearing Cap	Opposite Drive End Bearing Cap		
	good	NA		
57.	End Bell Air Seal Fits			
	Drive End Air Seal	Opposite Drive End Air Seal		
	good	good		
58.	List Machine Work Needed Below	1		
50	Tashnisian		Drondon Weederd	
59.	rechnician		Drandon woodard	

