

MOTOR SHOP LR

Hi-Speed Industrial Service 7030 Ryburn Dr Millington, Tn 38053 901-873-5300

> FolderID: 101078 FormID: 16215467

AC Recondition As Found Bryce Corporation (10053-BRC)

450 S. Benton **Searcy, AR 72143**

Location:

AC Recondition - Rev. 2

Serial Number: 1020939895

Description:125HP WEG 3600RPM 444/5TS

Hi-Speed Job Number:	101078
Manufacturer:	WEG
Product Number:	ARZ-180089000
Spec/ID #:	12457670
Serial Number:	1020939895
HP/kW:	125 (HP)
RPM:	3570 (RPM)
Frame:	444/5TS
Voltage:	460
Current:	134
Phase:	Three
Hz:	60 (Hz)
Service Factor:	1.15
Enclosure:	TEFC
J-box Included:	None
Coupling/Sheave:	None
Bearing RTDs:	No
Stator RTDs:	No
Repair Stage:	Final
Heaters:	No
Winding Type :	Random Wound
Bearing Type:	Rolling Element

Priorities Found: 6 5 - High





Overall Condition



1. Report Date

Nameplate Picture

P37

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Photos of all six sides of the machine.

P45















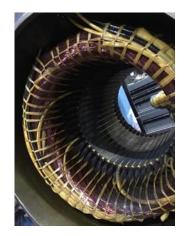
	4.	Describe the Overall Condition of the Equipment as Received		
In	itial	Mechanical/Electrical	Ō	
	5.	Does Shaft Turn Freely?	(No) No	
	6.	Does Shaft Have Visible Damage?	(Yes) Yes	
	7.	Assembled Shaft Runout		
	8.	Assembled Shaft End Play		
	9.	Air Gap Variation <10%		
	10.	Lead Condition	(P) Pass	
	11.	Lead Length	18 Inches	
	12.	Frame Condition	pass	
	13.	Fan Condition	(P) Pass	P91



1	4.	Broken or Missing Components				
Initial Electrical Inspection						Ō
1	5.	Insulation Resistance/Megger			0 Megohms	
1	6.	Winding Resistance				
		1-2	1-3	2-3		
• 1	7.	Perform Surge Test			(F) Fail	
1	8.	Number of Stator Slots				

19. Stator Condition rewind P68





Mechanical Inspection

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20. Drive End Bearing Brand

21. Drive End Bearing Number-

NU314 C3

P32



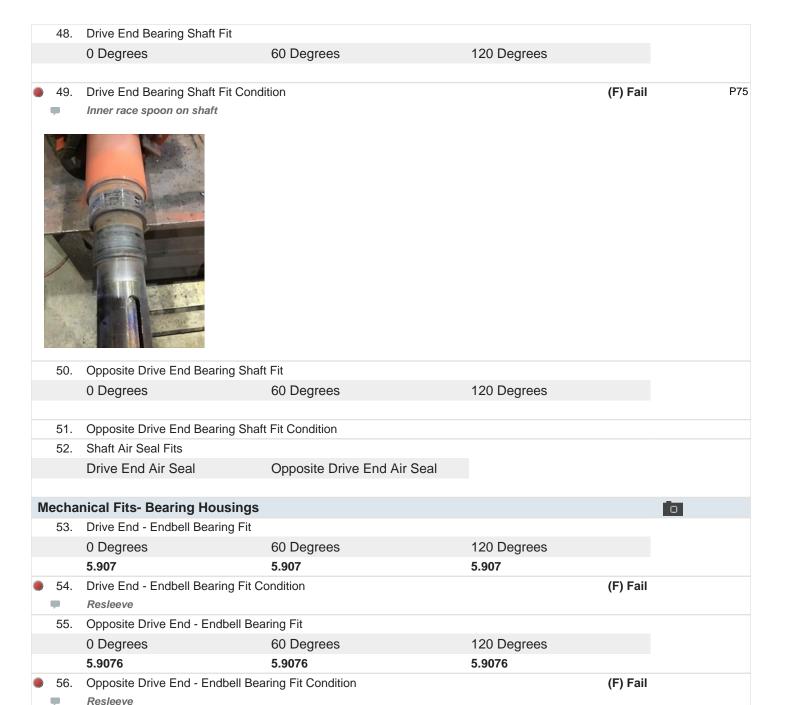


22.	Drive End Bearing Qty.	1
23.	Drive End Bearing Type	(Roller) Roller Bearing
24.	Drive End Lubrication Type	(Grease) Grease Lubricated
25.	Drive End Bearing Insulation or Grounding Device?	NA
26.	Drive End Wavy Washer/Snap-Ring Other Retention Device?	NA
27.	Drive End Bearing Condition	BAD
28.	Opposite Drive End Bearing Brand	КОҮО



30.	Opposite Drive End Bearing Qty.	1	
31.	Opposite Drive End Bearing Type	(Ball) Ball Bearing	
32.	Opposite Drive End Lubrication Type	(Grease) Grease Lubricated	
33.	Opposite Drive End Bearing Insulation or Grounding Device?	NA	
34.	Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?	Snap Ring	
35.	Opposite Drive End Bearing Condition		
36.	Drive End Seal		
37.	Opposite Drive End Seal		
Rotor	Inspection		
38.	Rotor Type/Material	(Squirrel Aluminum) Squirrel Cage Aluminum Die Cast	
39.	Growler Test	(Pass) Pass	
40.	Number of Rotor Bars	40	
41.	Rotor Condition	pass	
42.	List the Parts needed for the Repair Below		
	1-NU314C3 1-6314C3 BEARING		
43.	Signature of Technician that Disassembled Motor	RW	

Mecha	nical Fits- Rotor			O
44.	Shaft Runout			
45.	Rotor Runout			
	Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing	
46.	Coupling Fit Closest to Bearing F	lousing		
	0 Degrees	90 Degrees	120 Degrees	
47.	Coupling Fit Closest to the end of	f the Shaft		
	0 Degrees	60 Degrees	120 Degrees	



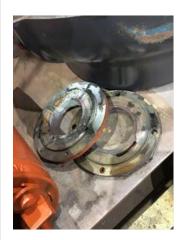
P51

Drive End Bearing Cap

Opposite Drive End Bearing Cap

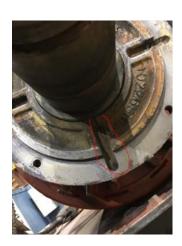
repair both caps

repair inside cap cracked





Drive end ODE CRACK



ODE CRACK

58. End Bell Air Seal Fits

Drive End Air Seal Opposite Drive End Air Seal

59. List Machine Work Needed Below

New shaft both end bells need resleeved de bearing caps need repaired.ode bearing cap cracked

60. Technician RW

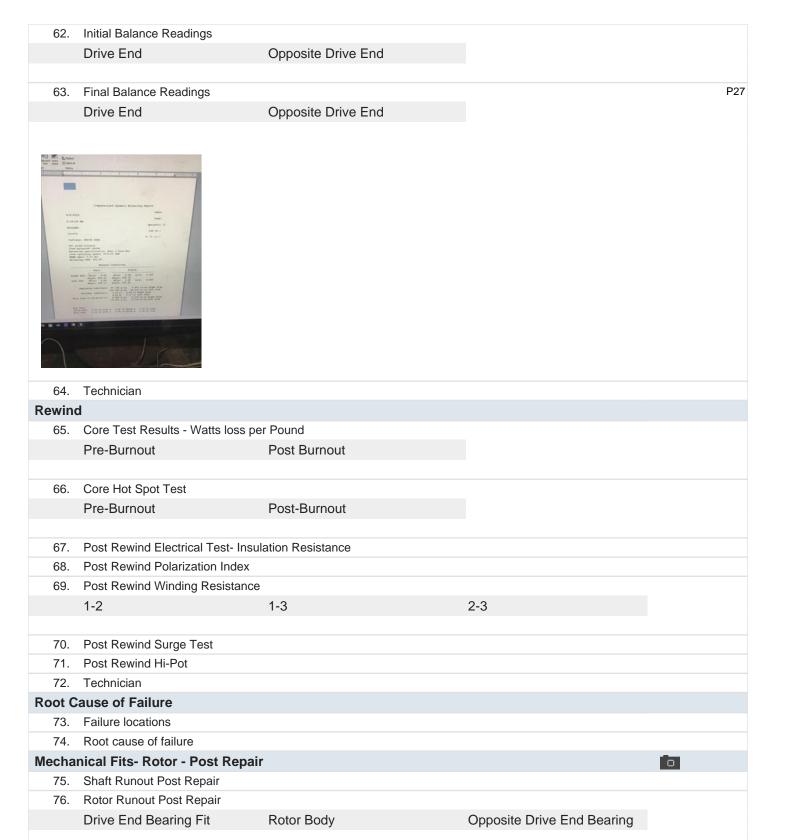


Dynamic Balance Report

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61. Rotor Weight and Balance Grade

Rotor Weight Balance Grade



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120 Degrees

90 Degrees

77. Coupling Fit Closest to Bearing Housing Post Repair

0 Degrees

78.	Coupling Fit Closest to the end of	f the Shaft Post Repair		
	0 Degrees	60 Degrees	120 Degrees	
79.	Drive End Bearing Shaft Fit Post	Repair		
	0 Degrees	60 Degrees	120 Degrees	
80.	Opposite Drive End Bearing Shafe	ft Fit Post Repair		
	0 Degrees	60 Degrees	120 Degrees	
81.	Shaft Air Seal Fits Post Repair			
	Drive End Air Seal	Opposite Drive End Air Seal		
82.	Shaft Repair Sign-off		Gary	P74

Machined new shaft



Mecha	anical Fits- Bearing Housings	- Post Repair		Ō
83.	Drive End - Endbell Bearing Fit F	ost Repair		P5
	0 Degrees	60 Degrees	120 Degrees	



60 Degrees 120 Degrees

5.906 5.906 5.906



Bearing Cap Condition Post Repair

P24

P20

Drive End Bearing Cap

Opposite Drive End Bearing Cap



End Bell Air Seal Fits Post Repair

Drive End Air Seal Opposite Drive End Air Seal

87. End Bell Repair Sign-off **Gary M**



	Assem	bly
	88.	QC Check All Parts for Cleanliness Prior to Assembly
	89.	Photograph All Major Components prior to assembly
	90.	Final Insulation Resistance Test

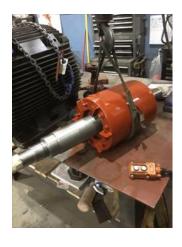
91. Assembled Shaft Endplay

92. Assembled Shaft Runout

93.	Test Run Voltage			
	Volts	Volts	Volts	
94.	Test Run Amperage			
	Amps	Amps	Amps	
95.	Drive End Vibration Readings -	Inches Per Second		
	Horizontal	Vertical	Axial	
96.	Opposite Drive End Vibration Re	eadings - Inches Per Second		
	Horizontal	Vertical	Axial	
97.	Ambient Temperature - Fahrenh	neit		
98.	Drive End Bearing Temps - Fah	renheit		
	5 Minutes	10 Minutes	15 Minutes	
99.	Opposite Drive End Bearing Ter	mps - Fahrenheit		
	5 Minutes	10 Minutes	15 Minutes	

100. Document Final Condition with Pictures after paint

P100



















101. Final Pics and QC Review

P101

















