

LR Motor Shop Repairs

Job Number 100284

Prepared for Powers Mechanical Services

5440 Northshore Drive North Little Rock AR 72118

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AC Recondition As Found - Shop

AC Recondition - Rev. 2: G11T0334NPI 45

1.0



FolderID: 100284

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AC Recondition As Found

Powers Mechanical Services

5440 Northshore Drive North Little Rock, AR 72118

AC Recondition - Rev. 2

Location: Shop Serial Number: G11T0334NPI 45

Description: 40HP SIEMENS 1800RPM 324T

Hi-Speed Job Number:	100284
Manufacturer:	Siemens
Product Number:	1LE23213AB112AA3
Serial Number:	G11T0334NPI 45
HP/kW:	40 (HP)
RPM:	1780 (RPM)
Frame:	324T
Voltage:	460
Current:	46
Phase:	Three
Hz:	60 (Hz)
Service Factor:	1.15
Enclosure:	TEFC
J-box Included:	Complete
Coupling/Sheave:	Sheave
Bearing RTDs:	No
Stator RTDs:	No
Repair Stage:	Teardown Inspection
Heaters:	No
Winding Type :	Random Wound
Bearing Type:	Rolling Element

Priorities Found: 1 - High



7 - Good

Overall Condition

1. Report Date

2. Nameplate Picture



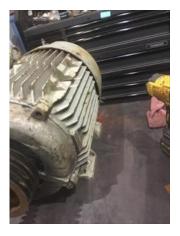


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	3.	Photos of all six sides of the machine.			
	4.	Describe the Overall Condition of the Equipment as Received			
	5.	Distance from the end of the shaft to the Coupling/Sheave			
In	itial	Mechanical/Electrical			
	6.	Does Shaft Turn Freely?	(Yes) Yes		
	7.	Does Shaft Have Visible Damage?	(No) No		
	8.	Assembled Shaft Runout			
	9.	Assembled Shaft End Play			
	10.	Air Gap Variation <10%			
	11.	Lead Condition	(P) Pass		
	12.	Lead Length			
	13.	Frame Condition	wash and bake		
	14.	Fan Condition	(P) Pass		



15. Broken or Missing Components					
Initial Electrical Inspection					
16. Insulation Resistance/Megger 3,857 Megohms					
17. Winding Resistance					
1-2	1-3	2-3			

18. Perform Surge Test



19. Stator Condition wash and bake





(P) Pass

Mechanical Inspection

20. Drive End Bearing Number- 6312





Moisture corrosion

21. Drive End Bearing Qty.	1
22. Drive End Bearing Type	(Ball) Ball Bearing
23. Drive End Lubrication Type	(Grease) Grease Lubricated
24. Drive End Bearing Insulation or Grounding Device?	no

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25. Drive End Wavy Washer/Snap-Ring Other Retention Device?	no
26. Drive End Bearing Condition	bad
27. Opposite Drive End Bearing Number-	6312





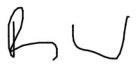
Frosted

28.	Opposite Drive End Bearing Qty.	
29.	Opposite Drive End Bearing Type	(Ball) Ball Bearing
30.	Opposite Drive End Lubrication Type	(Grease) Grease Lubricated
31.	Opposite Drive End Bearing Insulation or Grounding Device?	na
32.	Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?	wavy washer
33.	Opposite Drive End Bearing Condition	bad
34.	Drive End Seal	
35.	Opposite Drive End Seal	
Rotor	Inspection	
36.	Rotor Type/Material	
37.	Growler Test	(Pass) Pass
38.	Number of Rotor Bars	
39.	Rotor Condition	wash and bake



40. List the Parts needed for the Repair Below *OD end bell housing fit bad*

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M	lec	han	ical	Fits-	Rotor

42.	Shaft	Runout

43. R	otor	Runout
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Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing

44. Coupling Fit Closest to Bearing Housing

0 Degrees 90 Degrees 120 Degrees

45. Coupling Fit Closest to the end of the Shaft

0 Degrees 60 Degrees 120 Degrees

46. Drive End Bearing Shaft Fit

0 Degrees 60 Degrees 120 Degrees

47. Drive End Bearing Shaft Fit Condition

(P) Pass



48.	Opposite Drive End Bearing Shaft Fit
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0 Degrees 60 Degrees 120 Degrees



50.	Shaft Air Seal Fits			
	Drive End Air Seal	Opposite Drive End Air Seal		
Mech	anical Fits- Bearing Housings			
51.	Drive End - Endbell Bearing Fit			
	0 Degrees	60 Degrees	120 Degrees	
5 2.	Drive End - Endbell Bearing Fit Condi	tion		(P) Pass
53.	Opposite Drive End - Endbell Bearing	Fit		
	0 Degrees	60 Degrees	120 Degrees	
5 4.	Opposite Drive End - Endbell Bearing	Fit Condition		(F) Fail



55. Bearing Cap Condition Drive End Bearing Cap Wash Opposite Drive End Bearing Cap wash



56.	End Bell Air Seal Fits		
	Drive End Air Seal	Opposite Drive End Air Seal	
57.	List Machine Work Needed Below		
	ODE End Bell Housing bearing		
58.	Technician	RW	1
	71		

Root Cause of Failure

- 59. Failure locations
- 60. Root cause of failure



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