



AC Recondition As Found

Arauco-Malvern MDF (10298)

1275 Willamette Rd
Malvern, AR 72104

FolderID: 100410
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AC Recondition - Rev. 2

Location: LR MOTORSHOP
Serial Number: L93
Description: 75HP SIEMENS 1800RPM 365T

Hi-Speed Job Number:	100410
Manufacturer:	Siemens
Product Number:	1LS23654FC21A
Serial Number:	L93
HP/kW:	75 (HP)
RPM:	1775 (RPM)
Frame:	365T
Voltage:	230 / 460
Current:	178.8/89.4
Phase:	Three
Hz:	60 (Hz)
Service Factor:	1.15
Enclosure:	TEFC
J-box Included:	Complete
Coupling/Sheave:	None
Bearing RTDs:	No
Stator RTDs:	No
Repair Stage:	Teardown Inspection
Heaters:	No
Winding Type :	Random Wound
Bearing Type:	Rolling Element

Priorities Found: ● 3 - High ● 5 - Good

Overall Condition



- Report Date
- Nameplate Picture

P21



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- 3. Photos of all six sides of the machine.
- 4. Describe the Overall Condition of the Equipment as Received
Serviceable

Initial Mechanical/Electrical



- 5. Does Shaft Turn Freely? **(Yes) Yes**

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6. Does Shaft Have Visible Damage?

(No) No

P12



7. Assembled Shaft Runout

8. Assembled Shaft End Play

9. Air Gap Variation <10%

● 10. Lead Condition

(P) Pass

P32



11. Lead Length

22 Inches

12. Frame Condition

pass

● 13. Fan Condition

(P) Pass

P53



14. Broken or Missing Components

Initial Electrical Inspection



15. Insulation Resistance/Megger

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16. Winding Resistance	1-2	1-3	2-3	
17. Perform Surge Test				(F) Fail P35
				
18. Stator Condition				rewind stator
Mechanical Inspection 				
19. Drive End Bearing Number-				6314 Z P8
				
20. Drive End Bearing Qty.				1
21. Drive End Bearing Type				(Ball) Ball Bearing
22. Drive End Lubrication Type				(Grease) Grease Lubricated
23. Drive End Bearing Insulation or Grounding Device?				none
24. Drive End Wavy Washer/Snap-Ring Other Retention Device?				none
25. Drive End Bearing Condition				replace
26. Opposite Drive End Bearing Number-				6210 NSE C3
27. Opposite Drive End Bearing Qty.				1

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28. Opposite Drive End Bearing Type

(Ball) Ball Bearing

P50



29. Opposite Drive End Lubrication Type

(Grease) Grease Lubricated

30. Opposite Drive End Bearing Insulation or Grounding Device?

none

31. Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?

yes

P55



32. Opposite Drive End Bearing Condition

replace

33. Drive End Seal

34. Opposite Drive End Seal

Rotor Inspection



35. Rotor Type/Material

(Squirrel Aluminum) Squirrel
Cage Aluminum Die Cast

P3



36. Growler Test

(Pass) Pass

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37.	Number of Rotor Bars		
38.	Rotor Condition		pass
39.	List the Parts needed for the Repair Below		
40.	Signature of Technician that Disassembled Motor		Terrence Holland
			
Mechanical Fits- Rotor			
41.	Shaft Runout		0.001 inches
42.	Rotor Runout		
	Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing
43.	Coupling Fit Closest to Bearing Housing		
	0 Degrees	90 Degrees	120 Degrees
44.	Coupling Fit Closest to the end of the Shaft		
	0 Degrees	60 Degrees	120 Degrees
45.	Drive End Bearing Shaft Fit		
	0 Degrees	60 Degrees	120 Degrees
	2.7563	2.7563	2.7563
● 46.	Drive End Bearing Shaft Fit Condition		(P) Pass
47.	Opposite Drive End Bearing Shaft Fit		
	0 Degrees	60 Degrees	120 Degrees
	1.9687	1.9687	1.9687
● 48.	Opposite Drive End Bearing Shaft Fit Condition		(P) Pass
49.	Shaft Air Seal Fits		
	Drive End Air Seal	Opposite Drive End Air Seal	
Mechanical Fits- Bearing Housings			
50.	Drive End - Endbell Bearing Fit		
	0 Degrees	60 Degrees	120 Degrees
● 51.	Drive End - Endbell Bearing Fit Condition		(F) Fail
	Pitted		
52.	Opposite Drive End - Endbell Bearing Fit		
	0 Degrees	60 Degrees	120 Degrees
● 53.	Opposite Drive End - Endbell Bearing Fit Condition		(F) Fail
	Lip worn in		
54.	Bearing Cap Condition		
	Drive End Bearing Cap	Opposite Drive End Bearing Cap	

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55. End Bell Air Seal Fits

Drive End Air Seal

Opposite Drive End Air Seal

56. List Machine Work Needed Below

Both end bell housing fits. Top eye bolt hole has eyebolt broken off and needs to be drilled and tapped.

57. Technician

Terrence Holland



Root Cause of Failure



58. Failure locations

P6

Windings have blow hole on ode end of coil head



59. Root cause of failure