



AC Recondition As Found

Arauco-Malvern MDF (10298)

1275 Willamette Rd
Malvern, AR 72104

FolderID: 100410
FormID: 14759512

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



1. Report Date
2. Nameplate Picture

P21









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

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

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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	

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

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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	

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