



AC Inspection as Found

Arauco-Malvern MDF (10298)

1275 Willamette Rd
Malvern, AR 72104

FolderID: 101655
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AC Inspection - Rev. 2

Location: LR MOTORSHOP

Serial Number: 603T0652TE 1

Description: 150HP SIEMENS 900RPM 447T

Hi-Speed Job Number: 101655

Manufacturer: Siemens

Product Number: 1LA04478HE41

Serial Number: 603T0652TE 1

HP/kW: 150 (HP)

RPM: 885 (RPM)

Frame: 447T

Voltage: 460

Current: 186

Phase: Three

Hz: 60 (Hz)

Service Factor: 1.15

Enclosure: TEFC

of Leads: 6

J-box Included: Complete

Coupling/Sheave: None

Bearing RTDs: No

Stator RTDs: No

Repair Stage: Final


Rewind: No

Shaft Machined Fit Repairs
Required: No

Heaters: No

Winding Type : Random Wound

Bearing Type: Rolling Element

Priorities Found:  9 - Good

Overall Condition



1. Report Date

2. Nameplate Picture

P34



3. Photos of all six sides of the machine.

P45





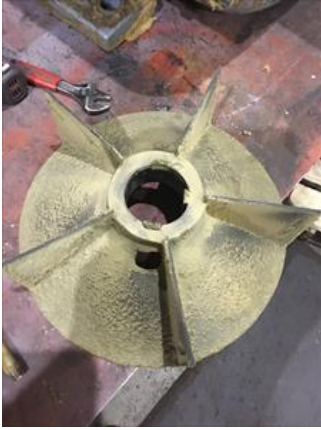


4. Describe the Overall Condition of the Equipment as Received
Serviceable

Initial Mechanical/Electrical



5.	Does Shaft Turn Freely?	(Yes) Yes
6.	Does Shaft Have Visible Damage?	(No) No
7.	Assembled Shaft Runout	0.001 Inches
8.	Assembled Shaft End Play	
9.	Air Gap Variation <10%	
10.	Lead Condition	(P) Pass
11.	Lead Length	13 Inches
12.	Lead Numbers	1-3
13.	Frame Condition	pass



15. Broken or Missing Components

connection box top cover

Initial Electrical Inspection



16. Insulation Resistance/Megger

17. Winding Resistance

1-2

1-3

2-3

18. Perform Surge Test

(P) Pass

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19. Number of Stator Slots

72 Megohms

20. Stator Condition

pass

21. Stator Thermistors/Ohms

22. Stator Overloads/Ohms

Mechanical Inspection





24. Drive End Bearing Number-	6320
25. Drive End Bearing Qty.	1
26. Drive End Bearing Type	(Ball) Ball Bearing
27. Drive End Lubrication Type	(Grease) Grease Lubricated
28. Drive End Bearing Insulation or Grounding Device?	none
29. Drive End Wavy Washer/Snap-Ring Other Retention Device?	none
30. Drive End Bearing Condition	replace
31. Opposite Drive End Bearing Brand	NTN
32. Opposite Drive End Bearing Number-	6316 C3



33. Opposite Drive End Bearing Qty.	1
34. Opposite Drive End Bearing Type	(Ball) Ball Bearing



35. Opposite Drive End Lubrication Type	(Grease) Grease Lubricated
36. Opposite Drive End Bearing Insulation or Grounding Device?	none
37. Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?	snap ring
38. Opposite Drive End Bearing Condition	replace
39. Drive End Seal	
40. Opposite Drive End Seal	


Rotor Inspection

41. Rotor Type/Material	(Squirrel Aluminum) Squirrel Cage Aluminum Die Cast
42. Growler Test	(Pass) Pass
43. Number of Rotor Bars	
44. Rotor Condition	
45. List the Parts needed for the Repair Below	
46. Signature of Technician that Disassembled Motor	Terrence Holland



Mechanical Fits- Rotor

47. Shaft Runout	0.001 inches
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48.	Rotor Runout		
	Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing
49.	Coupling Fit Closest to Bearing Housing		
	0 Degrees	90 Degrees	120 Degrees
50.	Coupling Fit Closest to the end of the Shaft		
	0 Degrees	60 Degrees	120 Degrees
51.	Drive End Bearing Shaft Fit		
	0 Degrees	60 Degrees	120 Degrees
	3.9376	3.9375	3.9374
52.	Drive End Bearing Shaft Fit Condition		(P) Pass
53.	Opposite Drive End Bearing Shaft Fit		
	0 Degrees	60 Degrees	120 Degrees
	3.15	3.15	3.15
54.	Opposite Drive End Bearing Shaft Fit Condition		(P) Pass
55.	Shaft Air Seal Fits		
	Drive End Air Seal	Opposite Drive End Air Seal	
Mechanical Fits- Bearing Housings			
56.	Drive End - Endbell Bearing Fit		
	0 Degrees	60 Degrees	120 Degrees
	8.464700000000001	8.464600000000001	8.464700000000001
57.	Drive End - Endbell Bearing Fit Condition		(P) Pass
58.	Opposite Drive End - Endbell Bearing Fit		
	0 Degrees	60 Degrees	120 Degrees
	6.6934	6.6932	6.6934
59.	Opposite Drive End - Endbell Bearing Fit Condition		(P) Pass
60.	Bearing Cap Condition		
	Drive End Bearing Cap	Opposite Drive End Bearing Cap	
	pass	pass	
61.	End Bell Air Seal Fits		
	Drive End Air Seal	Opposite Drive End Air Seal	
62.	List Machine Work Needed Below None		
63.	Technician		Terrence Holland
			
Dynamic Balance Report			
64.	Rotor Weight and Balance Grade		
	Rotor Weight	Balance Grade	

65.	Initial Balance Readings		
	Drive End	Opposite Drive End	
66.	Final Balance Readings		
	Drive End	Opposite Drive End	
67.	Technician		
Root Cause of Failure			
68.	Failure locations		
69.	Root cause of failure		
Mechanical Fits- Bearing Housings - Post Repair			
70.	Drive End - Endbell Bearing Fit Post Repair		
	0 Degrees	60 Degrees	120 Degrees
71.	Opposite Drive End - Endbell Bearing Fit Post Repair		
	0 Degrees	60 Degrees	120 Degrees
72.	Bearing Cap Condition Post Repair		
	Drive End Bearing Cap	Opposite Drive End Bearing Cap	
73.	End Bell Air Seal Fits Post Repair		
	Drive End Air Seal	Opposite Drive End Air Seal	
74.	End Bell Repair Sign-off		
Assembly			
75.	QC Check All Parts for Cleanliness Prior to Assembly		
76.	Photograph All Major Components prior to assembly		
77.	Final Insulation Resistance Test		
78.	Assembled Shaft Endplay		
79.	Assembled Shaft Runout		
80.	Test Run Voltage		
	Volts	Volts	Volts
81.	Test Run Amperage		
	Amps	Amps	Amps
82.	Drive End Vibration Readings - Inches Per Second		
	Horizontal	Vertical	Axial
83.	Opposite Drive End Vibration Readings - Inches Per Second		
	Horizontal	Vertical	Axial
84.	Ambient Temperature - Fahrenheit		
85.	Drive End Bearing Temps - Fahrenheit		
	5 Minutes	10 Minutes	15 Minutes

86. Opposite Drive End Bearing Temps - Fahrenheit			
5 Minutes	10 Minutes	15 Minutes	
87. Document Final Condition with Pictures after paint			
88. Final Pics and QC Review			