

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

> FolderID: 101154 FormID: 16335876

AC Recondition As Found Arauco-Malvern MDF (10298)

1275 Willamette Rd Malvern, AR 72104

AC Recondition - Rev. 2

LR MOTORSHOP Location: Serial Number: J04T0652TE 1

Description: 150HP SIEMENS 900RPM 447T

Hi-Speed Job Number:	101154
Manufacturer:	Siemens
Product Number:	1LA04478HE41
Serial Number:	J04T0652TE 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
J-box Included:	Complete
Coupling/Sheave:	None
Bearing RTDs:	No
Stator RTDs:	No
Repair Stage:	Final
Heaters:	No
Winding Type :	Random Wound
Bearing Type:	Rolling Element

Priorities Found: **2 - High**



7 - Good

Overall Condition

Report Date





0



Photos of all six sides of the machine.

P45





































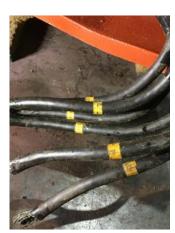




4. Describe the Overall Condition of the Equipment as Received

	••	Booting the Overall Condition of the Equipment do Note in the		
Ir	itial	Mechanical/Electrical		Ō
	5.	Does Shaft Turn Freely?	(Yes) Yes	
	6.	Does Shaft Have Visible Damage?	(No) No	
	7.	Assembled Shaft Runout	0.002 Inches	
	8.	Assembled Shaft End Play		
	9.	Air Gap Variation <10%		
	10.	Lead Condition	(P) Pass	P54



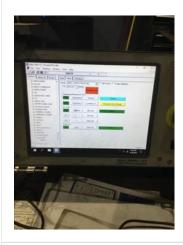


11.	Lead Length	19 Inches	
12.	Frame Condition		
13.	Fan Condition	(P) Pass	P91

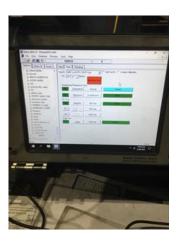


14. Broken or Missing Components Initial Electrical Inspection 15. Insulation Resistance/Megger 16. Winding Resistance

17. Perform Surge Test (P) Pass P57



1-2



2-3

18. Number of Stator Slots

1-3

19. Stator Condition pass

Mechanical Inspection

D. Drive End Bearing Brand Nachi

21. Drive End Bearing Number- 6320 Z P32





0

22.	Drive End Bearing Qty.	1	
23.	Drive End Bearing Type	(Ball) Ball Bearing	
24.	Drive End Lubrication Type	(Grease) Grease Lubricated	
25.	Drive End Bearing Insulation or Grounding Device?	none	
26.	Drive End Wavy Washer/Snap-Ring Other Retention Device?	none	
27.	Drive End Bearing Condition	replace	
28.	Opposite Drive End Bearing Brand	ORS	



30. Opposite Drive End Bearing Qty.

Opposite Drive End Bearing Type

1

(Ball) Ball Bearing

P90







32.	Opposite Drive End Lubrication Type	(Grease) Grease Lubricated	
33.	Opposite Drive End Bearing Insulation or Grounding Device?	none	
34.	Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?	snap ring	
35.	Opposite Drive End Bearing Condition	replace	
36.	Drive End Seal		P98



37. Opposite Drive End Seal

none

Rotor Inspection

0

38. Rotor Type/Material

(Squirrel Aluminum) Squirrel Cage Aluminum Die Cast

P3



39. Growler Test

40. Number of Rotor Bars

41. Rotor Condition

42. List the Parts needed for the Repair Below

43. Signature of Technician that Disassembled Motor

Terrence Holland



44. Shaft Runout 0.002 inches

45. Rotor Runout

Drive End Bearing Fit Rotor Body Opposite Drive End Bearing

46. Coupling Fit Closest to Bearing Housing

0 Degrees 90 Degrees 120 Degrees

7/M-4

	47.	Coupling Fit Closest to the end	of the Shaft			
		0 Degrees	60 Degrees	120 Degrees		
	48.	Drive End Bearing Shaft Fit				
		0 Degrees	60 Degrees	120 Degrees		
		3.9375	3.9376	3.9377		
	49.	Drive End Bearing Shaft Fit Co	ndition		(P) Pass	
	50.	Opposite Drive End Bearing Sh	naft Fit			
		0 Degrees	60 Degrees	120 Degrees		
		3.1503	3.1502	3.1502		
	51.	Opposite Drive End Bearing Sh	naft Fit Condition		(P) Pass	
	52.	Shaft Air Seal Fits				
		Drive End Air Seal	Opposite Drive End Air Seal			
M	echa	nical Fits- Bearing Housing	s		Ō	
	53.	Drive End - Endbell Bearing Fit				
		0 Degrees	60 Degrees	120 Degrees		
		8.466200000000001	8.4664	8.4663		
	54.	Drive End - Endbell Bearing Fit	Condition		(F) Fail	
	55.	Opposite Drive End - Endbell E	Searing Fit			
		0 Degrees	60 Degrees	120 Degrees		
		6.694	6.6941	6.694		
	56.	Opposite Drive End - Endbell E	Searing Fit Condition		(F) Fail	
	57.	Described One One official				
		Bearing Cap Condition				P51
		Drive End Bearing Cap	Opposite Drive End Bearing Ca	p		P51
			Opposite Drive End Bearing Ca	p		P51



Drive End Air Seal Opposite Drive End Air Seal

59. List Machine Work Needed Below Sleeve both end bell housings.

60. Technician Terrence Holland

Le Helle D

Dynan	nic Balance Report		
61.	Rotor Weight and Balance Grade		
	Rotor Weight	Balance Grade	
62.	Initial Balance Readings		
	Drive End	Opposite Drive End	
63.	Final Balance Readings		
	Drive End	Opposite Drive End	
64.	Technician		
Rewin			
65.			
	Pre-Burnout	Post Burnout	
66.	Core Hot Spot Test		
	Pre-Burnout	Post-Burnout	
67.	Post Rewind Electrical Test-Insul	lation Resistance	
68.	Post Rewind Polarization Index		
69.	Post Rewind Winding Resistance		
	1-2	1-3	2-3
70.	Post Rewind Surge Test		
71.	Post Rewind Hi-Pot		
72.	Technician		
	Cause of Failure		
73. 74.	Failure locations		
	Root cause of failure		
	nical Fits- Rotor - Post Repair		
75. 76.	Shaft Runout Post Repair Rotor Runout Post Repair		
76.	•	Rotor Body	Opposite Drive End Poering
	Drive End Bearing Fit	Rotol Body	Opposite Drive End Bearing
77.	Coupling Fit Closest to Bearing H	ousing Post Renair	
11.	0 Degrees	90 Degrees	120 Degrees
	o Degrees	30 Degrees	120 Degices
78.	Coupling Fit Closest to the end of	the Shaft Post Repair	
10.	0 Degrees	60 Degrees	120 Degrees
	o Dogroos	00 Dogrood	120 Dog1003

79.	Drive End Bearing Shaft Fit Post I	Renair		
70.	0 Degrees	60 Degrees	120 Degrees	
	0 Degrees	00 Degrees	120 Degrees	
90	Opposite Drive End Bearing Shaft	Fit Doot Donois		
80.		·	400 B	
	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			
Mecha	nical Fits- Bearing Housings -	- Post Repair		
83.	Drive End - Endbell Bearing Fit Po	ost Repair		
	0 Degrees	60 Degrees	120 Degrees	
84.	Opposite Drive End - Endbell Bea	ring Fit Post Repair		
	0 Degrees	60 Degrees	120 Degrees	
	-		-	
85.	Bearing Cap Condition Post Repa	iir		
	Drive End Bearing Cap	Opposite Drive End Bearing Cap		
	3 1			
86.	End Bell Air Seal Fits Post Repair			
	Drive End Air Seal	Opposite Drive End Air Seal		
		.,,		
87.	End Bell Repair Sign-off			
Assem				
88.	QC Check All Parts for Cleanlines	s Prior to Assembly		
89.	Photograph All Major Components	•		
90.	Final Insulation Resistance Test	o prior to documery		
	Assembled Shaft Endplay			
92.	Assembled Shaft Runout			
93.	Test Run Voltage			
00.	Volts	Volts	Volts	
	VOILO	V 5.10	VOILO	
94.	Test Run Amperage			
54.	Amps	Amps	Amps	
	Allipo	7.1.170	7 mipo	
95.	Drive End Vibration Readings - In	ches Per Second		
33.	Horizontal	Vertical	Axial	
	Honzontal	Vertical	Axiai	
06	Opposite Drive End Vibration Bas	udings Inches Per Second		
96.	Opposite Drive End Vibration Rea		Assign	
	Horizontal	Vertical	Axial	
07	Auchieut Tenene (5 l			
97.	Ambient Temperature - Fahrenhe			
98.	Drive End Bearing Temps - Fahre			
	5 Minutes	10 Minutes	15 Minutes	

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99.	Opposite Drive End Bearing Temps - Fahrenheit			
	5 Minutes	10 Minutes	15 Minutes	
100	Document Final Condition with	Pictures after paint		
100.	Document mar condition man	1 lotaroo aitor pairit		