



KEEPING YOUR FACILITY UP TO SPEED
— EVERY DAY SINCE 1946 —

LR Motor Shop Repairs

Job Number 103909

Prepared for Arauco-Malvern MDF (10298)

1275 Willamette Rd
Malvern AR 72104

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

AC Inspection as Found

Arauco-Malvern MDF (10298)

1275 Willamette Rd
Malvern, AR 72104

FolderID: 103909
FormID: 22674782

AC Inspection - Rev. 2

Location: LR MOTORSHOP

Serial Number: D05T0141EU 14

Description: 75 HP SIEMENS

Hi-Speed Job Number: 103909

Manufacturer: Siemens

Product Number: PART: 005T0141EU14

Serial Number: D05T0141EU 14

HP/kW: 75 (HP)

RPM: 1775 (RPM)

Frame: 365T

Voltage: 230 / 460

Current: 175/87

Phase: Three

Hz: 60 (Hz)

Service Factor: 1.15

Enclosure: TEFC

of Leads: 9

J-box Included: Half

Coupling/Sheave: None

Bearing RTDs: No

Stator RTDs: No

Repair Stage: Final

Rewind: Yes

Shaft Machined Fit Repairs
Required: No

Bearing Housing Machined
Fit Repairs Required: No

Heaters: No

Winding Type : Random Wound

Bearing Type: Rolling Element

Priorities Found: ● 2 - High ● 10 - Good

Overall Condition

1. Report Date

01/03/2025

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2. Nameplate Picture



3. Photos of all six sides of the machine.



4. Describe the Overall Condition of the Equipment as Received

Corrosion on shaft and inside junction box.



Initial Mechanical/Electrical

5.	Does Shaft Turn Freely?	(Y) Yes
6.	Does the shaft require T.I.R in Lathe to identify additional repairs?	(No) No
7.	Does Shaft Have Visible Damage?	(No) No
8.	Assembled Shaft Runout	0.0005 Inches
9.	Assembled Shaft End Play	0 inches
10.	Air Gap Variation <10%	
11.	Lead Condition	(P) Pass
12.	Lead Length	14 Inches
13.	Does it have Lugs?, If so what is the Stud Size?	(Yes) Yes
	3/8 stud	
14.	Lead Numbers	1-9
15.	Frame Condition	good
16.	Fan Condition	(P) Pass



17.	Broken or Missing Components	junction box cover
Initial Electrical Inspection		
18.	Insulation Resistance/Megger	Megohms
	Solid ground	
19.	Winding Resistance	
	1-2	1-3 2-3
20.	Perform Surge Test	(F) Fail

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21. Number of Stator Slots	48
22. Stator Condition	shorted
23. Stator Thermistors/Ohms	none
24. Stator Overloads/Ohms	none
Mechanical Inspection	
25. Drive End Bearing Brand	
26. Drive End Bearing Number-	6314
27. Drive End Bearing Qty.	1
28. Drive End Bearing Type	(Ball) Ball Bearing
29. Drive End Lubrication Type	(Grease) Grease Lubricated
30. Drive End Bearing Insulation or Grounding Device?	aegis



31. Drive End Wavy Washer/Snap-Ring Other Retention Device?	aegis ring behind bearing
32. Drive End Bearing Condition	normal wear



33. Opposite Drive End Bearing Brand	
34. Opposite Drive End Bearing Number-	6210
35. Opposite Drive End Bearing Qty.	1
36. Opposite Drive End Bearing Type	(Ball) Ball Bearing
37. Opposite Drive End Lubrication Type	(Grease) Grease Lubricated
38. Opposite Drive End Bearing Insulation or Grounding Device?	none present
39. Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?	wavy washer
40. Opposite Drive End Bearing Condition	normal wear

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41.	Drive End Seal	non present	
42.	Opposite Drive End Seal	none present	
Rotor Inspection			
43.	Rotor Type/Material	(Squirrel Aluminum) Squirrel Cage Aluminum Die Cast	
44.	Growler Test	(Pass) Pass	
45.	Number of Rotor Bars	42	
46.	Rotor Condition	acceptable	
47.	List the Parts needed for the Repair Below		
48.	Signature of Technician that Disassembled Motor	Shon Jones	
Mechanical Fits- Rotor			
49.	Shaft Runout	inches	
50.	Rotor Runout		
	Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing
51.	Coupling Fit Closest to Bearing Housing		
	0 Degrees	90 Degrees	120 Degrees
52.	Coupling Fit Closest to the end of the Shaft		
	0 Degrees	60 Degrees	120 Degrees
53.	Drive End Bearing Shaft Fit		
	0 Degrees	60 Degrees	120 Degrees
	2.757	2.7568	2.757
	Polish to tolerance		
54.	Drive End Bearing Shaft Fit Condition	(P) Pass	
	Polish		
55.	Opposite Drive End Bearing Shaft Fit		
	0 Degrees	60 Degrees	120 Degrees
	1.969	1.969	1.969
	Polish to standard		

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56.	Opposite Drive End Bearing Shaft Fit Condition		(P) Pass
	Polish		
57.	Shaft Air Seal Fits		
	Drive End Air Seal	Opposite Drive End Air Seal	
	good	good	
Mechanical Fits- Bearing Housings			
58.	Drive End - Endbell Bearing Fit		
	0 Degrees	60 Degrees	120 Degrees
	5.906	5.9061	5.9057
	Good		
59.	Drive End - Endbell Bearing Fit Condition		(P) Pass



60.	Opposite Drive End - Endbell Bearing Fit		
	0 Degrees	60 Degrees	120 Degrees
	2.5437	2.5435	2.5437



61.	Opposite Drive End - Endbell Bearing Fit Condition		(P) Pass
62.	Bearing Cap Condition		
	Drive End Bearing Cap	Opposite Drive End Bearing Cap	
	No cap		
63.	End Bell Air Seal Fits		
	Drive End Air Seal	Opposite Drive End Air Seal	
	none		

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64. List Machine Work Needed Below

Polish shaft journals both ends

65. Technician

Shon Jones

Root Cause of Failure

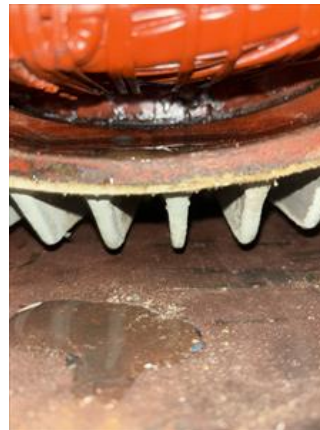
66. Failure locations

7 o'clock drive end



67. Root cause of failure

Short at edge of slot



Dynamic Balance Report

68. Rotor Weight and Balance Grade

Rotor Weight

Balance Grade

69. Initial Balance Readings

Drive End

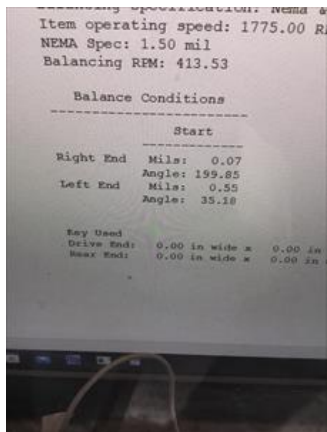
Opposite Drive End



70. Final Balance Readings

Drive End

Opposite Drive End



71. Technician

Cw

Rewind

72. Core Test Results - Watts loss per Pound

Pre-Burnout

Post Burnout

73. Core Hot Spot Test

Pre-Burnout


Post-Burnout

74. Post Rewind Electrical Test- Insulation Resistance

Megohms

75. Post Rewind Polarization Index

Polarization Index

76. Post Rewind Winding Resistance		
1-2	1-3	2-3
77. Post Rewind Surge Test		
78. Post Rewind Hi-Pot		micro-amps
79. Technician		
Assembly		
80. QC Check All Parts for Cleanliness Prior to Assembly		Cw
		
81. Photograph All Major Components prior to assembly		





82. Final Insulation Resistance Test	Megohms		
83. Assembled Shaft Endplay	inches		
84. Assembled Shaft Runout	inches		
85. Test Run Voltage			
Volts	Volts	Volts	



86. Test Run Amperage			
Amps	Amps	Amps	

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87. Drive End Vibration Readings - Inches Per Second		
Horizontal	Vertical	Axial
88. Opposite Drive End Vibration Readings - Inches Per Second		
Horizontal	Vertical	Axial
89. Ambient Temperature - Fahrenheit		
90. Drive End Bearing Temps - Fahrenheit		
5 Minutes	10 Minutes	15 Minutes
91. Opposite Drive End Bearing Temps - Fahrenheit		
5 Minutes	10 Minutes	15 Minutes

92. Document Final Condition with Pictures after paint



93. Final Pics and QC Review

Cw

A handwritten signature in black ink, appearing to be 'RRW', is written over a large, faint, stylized 'C' shape.

Co sign RRW



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

AC Random Coil Rewind Report


FolderID: 103909
FormID: 23009701

Arauco-Malvern MDF (10298)
1275 Willamette Rd
Malvern, AR 72104

Priorities Found: **5 - Good**

General	
1. Job Number	103909
2. Report Date	
3. Customer	Arruco
Stator Winding	
4. Core Length	9.125 "
5. Core ID	9.125 "
6. Back Iron Depth	0.875 "
7. Slot Depth	1.125 "
8. Tooth Width	0.26 "
9. Number of Vents	
10. Vent Width	
11. Before Burnout Core loss	(P) Pass
12. Flux Before Burnout	
13. Watts before burnout	
14. Watts loss per lb. before burnout	1.083 W/lbs.
15. After Burnout Core Loss	(P) Pass
16. Flux After burnout	
17. Watts After Burnout	Watts
18. Watts loss per lb After Burnout	1.444 W/lbs.
19. Core Iron Condition	(P) Pass
20. RTD's	
21. RTD's Reading	
22. Motor Heaters	
23. Heater Qty.	
24. Heater Voltage	
25. Heater Wattage	
26. Thermistors	
27. Number of Poles	4
28. Slots	48
29. Number of Coils	
12 OF 2	
30. Coil Weight	
31. Lead Markings	1-2-3-4-5-6-7-8-9
32. Grouping	12 Of 2

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33. Multiple Wires	(Y) Yes
34. Wire Size 5#1.180 1#1.120	
35. Turns per coil 24/24	
36. Pitch 1 to: 10-12	
37. Connection 2&4Delta	
38. Lead Length	12 "
39. Lead Size	4
40. Number of Leads	9
41. Megger Reading After Rewind	7965 Mohms
42. Coil Machine Slot	
43. Coil Machine Tip	
44. Coil Machine Pitch	
45. Hi Pot Reading After Rewind	
46. Surge Pattern After Rewind	(P) Pass
47. Service Technician	RHR
	
3.5On Dr End 3.5 On 32 Lbs Of # 17 48 Lbs Of # 16 #4 EDPM Lead wire 6Ft	





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