



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

LR Motor Shop Repairs

Job Number 103789

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: 103789
FormID: 22332989

AC Inspection - Rev. 2

Location: LR MOTORSHOP

Serial Number:

Description: LENZE SERVO MOTOR

Hi-Speed Job Number: 103789

Manufacturer: LENZE

HP/kW: 75 (kW)

RPM: 3000 (RPM)

Frame: 160

Voltage: Other

Current: 138 (Amps)

Phase: Three

Hz: 101 (Hz)

Service Factor: 1.00

Enclosure: TEFC

of Leads: 6

J-box Included: Complete

Coupling/Sheave: None

Bearing RTDs: No

Stator RTDs: No

Repair Stage: Final

Rewind: Yes

Shaft Machined Fit Repairs
Required: Yes

Bearing Housing Machined
Fit Repairs Required: No

Heaters: No

Winding Type : Random Wound

Bearing Type: Rolling Element

Priorities Found: 2 - High 8 - Good

Overall Condition

1. Report Date

11/20/2024

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1.0

2. Nameplate Picture



3. Photos of all six sides of the machine.





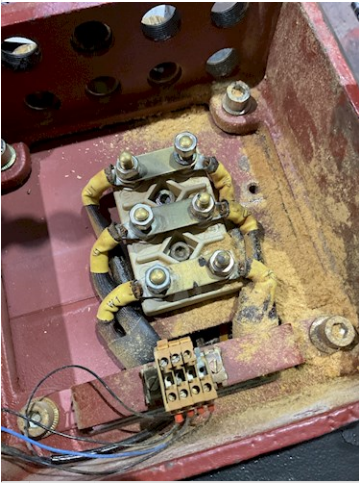
4. Describe the Overall Condition of the Equipment as Received
Serviceable

Initial Mechanical/Electrical

- | | |
|--|---------------------|
| 5. Does Shaft Turn Freely? | (NA) Not Applicable |
| 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 | Inches |
| Na | |
| 9. Assembled Shaft End Play | inches |
| Na | |
| 10. Air Gap Variation <10% | |
| Na | |

11. Lead Condition

(P) Pass



12. Lead Length

10 Inches

13. Does it have Lugs?, If so what is the Stud Size?

(Yes) Yes

14. Lead Numbers

U1V1W1-U2V2W2



15. Frame Condition

pass

16. Fan Condition

(P) Pass



17. Broken or Missing Components




na

Initial Electrical Inspection

18. Insulation Resistance/Megger

0 Megohms

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19. Winding Resistance		
1-2	1-3	2-3
Na		
20. Perform Surge Test		(F) Fail
21. Number of Stator Slots		48
22. Stator Condition		rewind
<div>   </div>		
23. Stator Thermistors/Ohms		yes 379.4. ohms
24. Stator Overloads/Ohms		na
Mechanical Inspection		
25. Drive End Bearing Brand		NACHI
26. Drive End Lubrication Type		(Grease) Grease Lubricated
27. Drive End Bearing Insulation or Grounding Device?		
28. Drive End Wavy Washer/Snap-Ring Other Retention Device?		
29. Drive End Bearing Condition		bad
<div>  </div>		
30. Opposite Drive End Bearing Brand		NACHI
31. Opposite Drive End Lubrication Type		(Grease) Grease Lubricated
32. Opposite Drive End Bearing Insulation or Grounding Device?		
33. Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?		wavy washer

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34. Opposite Drive End Bearing Condition

Old grease balls skiding on inner race



35. Drive End Seal

Na

36. Opposite Drive End Seal

Na

37. Drive End Bearing Number-

63132RS

38. Drive End Bearing Qty.

1

39. Drive End Bearing Type

(Ball) Ball Bearing

40. Opposite Drive End Bearing Number-

6212 2RS



41. Opposite Drive End Bearing Qty.

1

42. Opposite Drive End Bearing Type

(Ball) Ball Bearing

Rotor Inspection

43. Rotor Type/Material

(Squirrel Aluminum) Squirrel
Cage Aluminum Die Cast



44. Growler Test (Pass) Pass

45. Number of Rotor Bars 40

46. Rotor Condition pass

47. List the Parts needed for the Repair Below

1-6313 2RS 1-6212 2RS BEARING

48. Signature of Technician that Disassembled Motor RW

[Handwritten Signature]

Mechanical Fits- Rotor

49. Shaft Runout inches

Na

50. Rotor Runout

Drive End Bearing Fit

Rotor Body

Opposite Drive End Bearing

Na

51. Coupling Fit Closest to Bearing Housing

0 Degrees

90 Degrees

120 Degrees

Na

52. Coupling Fit Closest to the end of the Shaft

0 Degrees

60 Degrees

120 Degrees

Na

53. Drive End Bearing Shaft Fit

0 Degrees

60 Degrees

120 Degrees

Bad

54. Drive End Bearing Shaft Fit Condition

(F) Fail



55. Opposite Drive End Bearing Shaft Fit

0 Degrees

60 Degrees

120 Degrees

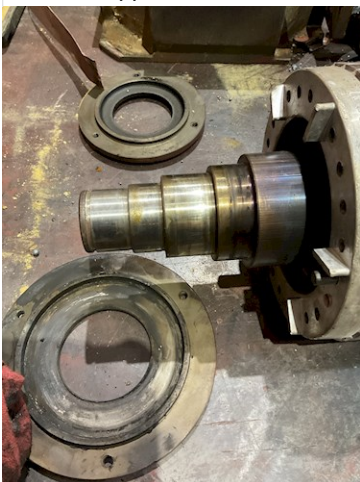
2.3625

2.3625

2.3625

56. Opposite Drive End Bearing Shaft Fit Condition

(P) Pass



57. Shaft Air Seal Fits

Drive End Air Seal

Opposite Drive End Air Seal

Pass

Mechanical Fits- Bearing Housings

58. Drive End - Endbell Bearing Fit

0 Degrees

60 Degrees

120 Degrees

5.5127

5.5127

5.5127

59. List Machine Work Needed Below

De shaft bearing fit bad .Recommend new shaft or weld fit

60. Technician

RW

[Handwritten signature]

Co sign:CRW

61. Drive End - Endbell Bearing Fit Condition

(P) Pass



62. Opposite Drive End - Endbell Bearing Fit		
0 Degrees	60 Degrees	120 Degrees
4.3307	4.3307	4.3307

63. Opposite Drive End - Endbell Bearing Fit Condition


(P) Pass

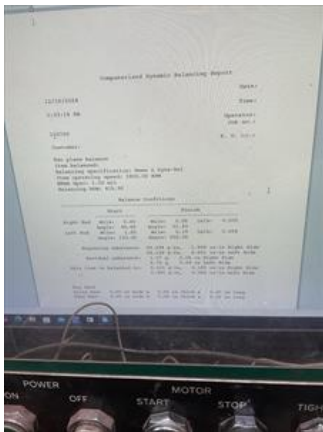






64. Bearing Cap Condition	
Drive End Bearing Cap pass	Opposite Drive End Bearing Cap pass




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65.	End Bell Air Seal Fits		
	Drive End Air Seal	Opposite Drive End Air Seal	
	 Pass		
Root Cause of Failure			
66.	Failure locations		
	De bearing		
67.	Root cause of failure		
	Carriage came apart letting rotor drop and drag the iron of winding and shortening to ground		
Dynamic Balance Report			
68.	Rotor Weight and Balance Grade		
	Rotor Weight	Balance Grade	



69.	Initial Balance Readings	
	Drive End	Opposite Drive End
	.80	1.85
70.	Final Balance Readings	
	Drive End	Opposite Drive End
	.08	.19
71.	Technician	RW
		
Rewind		
72.	Core Test Results - Watts loss per Pound	
	Pre-Burnout	Post Burnout
	 Na	
73.	Core Hot Spot Test	
	Pre-Burnout	Post-Burnout
	 Na	
74.	Post Rewind Electrical Test- Insulation Resistance	Megohms
	 Na	

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75. Post Rewind Polarization Index	Polarization Index	
Na		
76. Post Rewind Winding Resistance		
1-2	1-3	2-3
Na		
77. Post Rewind Surge Test	(Pass) Pass	
78. Post Rewind Hi-Pot		
79. Technician		
Na		
Mechanical Fits- Rotor - Post Repair		
80. Shaft Runout Post Repair	inches	
Na		
81. Rotor Runout Post Repair		
Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing
Na		
82. Coupling Fit Closest to Bearing Housing Post Repair		
0 Degrees	90 Degrees	120 Degrees
Na		
83. Coupling Fit Closest to the end of the Shaft Post Repair		
0 Degrees	60 Degrees	120 Degrees
Na		
84. Drive End Bearing Shaft Fit Post Repair		
0 Degrees	60 Degrees	120 Degrees
Na		
85. Opposite Drive End Bearing Shaft Fit Post Repair		
0 Degrees	60 Degrees	120 Degrees
Na		
86. Shaft Air Seal Fits Post Repair		
Drive End Air Seal	Opposite Drive End Air Seal	
Na		
87. Shaft Repair Sign-off		
Na		
Assembly		
88. QC Check All Parts for Cleanliness Prior to Assembly	RW	
		
89. Photograph All Major Components prior to assembly	(Complete) Complete	



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90. Final Insulation Resistance Test			Megohms
Pass the High Pot			
91. Assembled Shaft Endplay			0 inches
92. Assembled Shaft Runout			0.0002 inches
93. Test Run Voltage			
Volts	Volts	Volts	
229	228	229	






Co sign TRH

94. Test Run Amperage

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Amps	Amps	Amps
39.4	39.2	40.8



95.	Drive End Vibration Readings - Inches Per Second		
	Horizontal	Vertical	Axial
	0.06	0.02	0.05
96.	Opposite Drive End Vibration Readings - Inches Per Second		
	Horizontal	Vertical	Axial
	0.05	0.02	0.06
97.	Ambient Temperature - Fahrenheit		
	Na		
98.	Drive End Bearing Temps - Fahrenheit		
	5 Minutes	10 Minutes	15 Minutes
	Na		
99.	Opposite Drive End Bearing Temps - Fahrenheit		
	5 Minutes	10 Minutes	15 Minutes
	Na		
100.	Document Final Condition with Pictures after paint		

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101. Final Pics and QC Review

RW



Co signTRH



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

AC Random Coil Rewind Report

FolderID: 103789
FormID: 22336512

Arauco-Malvern MDF (10298)

1275 Willamette Rd
Malvern, AR 72104

LR MOTORSHOP
Winding

Priorities Found: ● 4 - Good

General

1. Job Number	103789
2. Report Date	11/20/2024
3. Customer	Arauco

Stator Winding

4. Core Length	9.75 "
■ 3.375 con head 3.5 with connection 3.5 opp connection head	

5. Core ID	7.625 "
6. Back Iron Depth	1 "
7. Slot Depth	1.25 "
8. Tooth Width	0.25 "
9. Number of Vents	0
10. Vent Width	0 "

● 11. Before Burnout Core loss	(P) Pass
---	----------

12. Flux Before Burnout	
13. Watts before burnout	
14. Watts loss per lb. before burnout	2.419 W/lbs.

15. After Burnout Core Loss	
16. Flux After burnout	
17. Watts After Burnout	
18. Watts loss per lb After Burnout	

19. Core Iron Condition	
20. RTD's	
21. RTD's Reading	
22. Motor Heaters	
23. Heater Qty.	
24. Heater Voltage	
25. Heater Wattage	

● 26. Thermistors	(Y) Yes
--	---------




27. Number of Poles	4
28. Slots	48
29. Number of Coils	48


30. Coil Weight	
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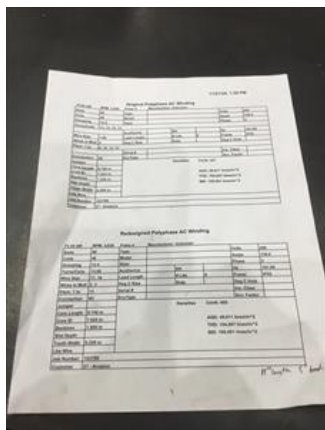
31. Lead Markings	
1-6	

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32. Grouping	12g 4 c	
33. Multiple Wires		(Y) Yes
34. Wire Size	2#17&3#18	
35. Turns per coil		13
36. Pitch 1 to:	1-8,10,12,14	
37. Connection	4 wye delta	
38. Lead Length		6 "
39. Lead Size		#6
40. Number of Leads		6
41. Megger Reading After Rewind		7794 Mohms
42. Coil Machine Slot		
43. Coil Machine Tip		
44. Coil Machine Pitch		
45. Hi Pot Reading After Rewind		0.0736 Ua
46. Surge Pattern After Rewind		(P) Pass
47. Service Technician		RHR







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2. **PRICE.** All quoted prices shall remain firm and binding for a period of thirty (30) days from the date of quotation or for the period specifically stated in the quotation. The price for any and all goods and/or services ordered or approved by Buyer after thirty (30) days from the date of any quotation are subject to any increase in price that may occur after the expiration of thirty (30) days from the issuance of the quotation and the date the Buyer releases any shipment.
3. **SCOPE OF GOODS AND/OR SERVICES.** The goods and/or services provided by Hi-Speed pursuant to any quotation shall be limited exclusively to those goods and/or services expressly identified therein. Hi-Speed does not assume any responsibility and/or liability for the failure to provide any other goods and/or services not identified in any quotation. Modifications, additions or deletions to or from the scope referenced in any quotation shall only be effective if evidenced in writing and signed by Hi-Speed. The sale of any of all goods and/or services affected by such modification, addition or deletion shall be subject to these same Standard Terms and Conditions whether or not referenced therein.
4. **BILLING AND PAYMENT TERMS.** Hi-Speed shall invoice Buyer for all goods and/or services as same are rendered at the address listed on the quotation. Payments for all goods and/or services shall be due thirty (30) days from the date of the current invoice or as otherwise set forth in the quotation. Late payments are subject to a late fee of 5% of the total invoice amount. Recurring late payments may lead to a deposit requirement on future services or sale of goods. Buyer shall be liable to Hi-Speed for any and all fees and expenses incurred by Hi-Speed to collect any invoices or to enforce these Standard Terms and Conditions, including but not limited to, attorney's fees.
5. **DELIVERY OF GOODS AND/OR SERVICES.** Unless otherwise identified in the quotation, all shipments are F.O.B. Hi-Speed's warehouse and the title to and all risk of loss with respect to any goods shipped shall pass to Buyer when such goods are delivered to the carrier at Hi-Speed's warehouse. Hi-Speed will use its best efforts to affect delivery by the date or dates specified in the quotation. However, Hi-Speed shall not be liable for delay in or failure to make shipment, or to perform services, by any identified date for any reason whatsoever, including but not limited to, causes beyond its reasonable control, such as strikes, fires, floods, epidemics, quarantines, restrictions, severe weather, embargos, acts of God, or public enemy, war, riot, delays in transportation or the inability to obtain necessary labor, materials or manufacturing facilities.
6. **DELIVERY SITE AND TIME FOR PERFORMANCE.** Hi-Speed and Buyer agree that time is of the essence for the purchase order and that Buyer shall fully cooperate with Hi-Speed in order to allow Hi-Speed full access to prosecute its work diligently and in an orderly manner. Buyer shall assist Hi-Speed in every way possible to avoid delaying, disrupting or interfering with the progress of Hi-Speed's work at the project site. In the event Hi-Speed's work is delayed, hindered, suspended, disrupted, re-sequenced or interfered with or rendered less efficient or more costly or adversely affected in any way as a result of acts or omissions of Buyer or other contractors or employees of Buyer or by any other reason beyond Hi-Speed's control and without the fault of Hi-Speed, then, in such event, Buyer shall be liable to Hi-Speed for any damages, additional costs, expenses, labor, materials, man hours, acceleration costs, overtime, additional jobsite overhead, extended home office overhead, and any and all other direct and indirect expenses of whatsoever nature or kind, caused in whole or in part, as a result of any of the above-referenced occurrences. Hi-Speed's project records will be the basis for computing the additional costs and damages of Hi-Speed's labor, materials, expenses and overhead related to such changes. BUYER WARRANTS THAT THE SITE FOR DELIVERY OR INSTALLATION OF ANY GOODS AND/OR FOR THE PERFORMANCE OF ANY SERVICES SHALL BE READY AND ADEQUATE FOR HI-SPEED'S DELIVERY OF GOODS AND/OR PERFORMANCE OF SERVICES AND THAT HI-SPEED SHALL HAVE FULL ACCESS THERETO, FREE OF ALL OBSTRUCTIONS. BUYER SHALL ASSUME ALL EXTRA COSTS ASSOCIATED WITH HI-SPEED'S INABILITY TO INSTALL ANY GOODS OR PERFORM ANY SERVICES AS A RESULT OF BUYER'S FAILURE TO COMPLY WITH THIS PROVISION. HI-SPEED MAY NOT INSPECT THE SITE PRIOR TO DELIVERY AND/OR INSTALLATION OF GOODS AND/OR PERFORMANCE OF SERVICES AND MAKES NO WARRANTY AS TO THE SUFFICIENCY OF THE SITE FOR THE DELIVERY AND/OR INSTALLATION OF GOODS AND/OR THE PERFORMANCE OF SERVICES AT SUCH SITE.
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12. **ABANDONED EQUIPMENT.** Hi-Speed requires that Buyer promptly pick up or provide shipment instructions for Buyer equipment or other Buyer property in Hi-Speed's possession. If equipment or other Buyer property is left with Hi-Speed and not picked up within six (6) months after Hi-Speed's final action related to the applicable property (e.g. evaluation, teardown, estimate, completion of services), Hi-Speed will consider such property abandoned and may dispose of it in accordance with applicable law. Buyer agrees to hold Hi-Speed harmless for any damage or claim for such abandoned property and acknowledges that Hi-Speed may discard or recycle it at Hi-Speed's sole and absolute discretion. Specifically, Hi-Speed may sell Buyer's abandoned property at a private or public sale and retain the proceeds to offset Hi-Speed's storage, inspection and servicing costs. For the avoidance of doubt, Hi-Speed reserves its statutory and other lawful liens for unpaid charges related to abandoned property.
13. **FORCE MAJEURE.** Neither party shall be responsible for any delay or failure in performance of any party of the quotation, purchase order or these Standard Terms and Conditions to the extent that such delays or failures are caused by fire, flood, earthquake, explosion, war, embargo, government requirement, civil or military authority, acts of God, or any other circumstances beyond its reasonable control and not involving any fault or negligence on the party affected ("Condition"). If any such Condition occurs, the party delayed or unable to perform shall promptly give written notice to the other party and, if such Condition remains at the end of thirty (30) days, the party affected by the other party's delay and inability to perform may elect to (i) terminate such order or part thereof, or (ii) suspend the order for the duration of the Condition, if the Buyer is the suspending party, buy elsewhere comparable material to be sold under the order and apply to any commitment the purchase price of such purchase, and resume performance of the order once the Condition ceases, with an option in the affected party to extend the period of this order up to the length of the time the Condition endures.
14. **NONWAIVER.** No course of dealing or failure of either party to strictly enforce any term, right, or condition of these Standard Terms and Conditions will be construed as a waiver of such term, right or condition. Any waiver by Hi-Speed will only be in writing and will waive no succeeding breach of a term, right or condition.
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16. **NO INDIVIDUAL LIABILITY.** Notwithstanding any other agreement to the contrary, the Buyer agrees that in no event will the Buyer hold and Hi-Speed owner, director, officer or employee personally liable for unintentional tortious conduct or conduct that constitutes the breach of any contract between Hi-Speed and the Buyer, even if the Hi-Speed owner, director, officer or employee is or could be construed to be a party to such contract.