



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

LR Motor Shop Repairs

Job Number 104354

Prepared for Lexicon (10257)

8900 Fouche Dam Pike
Little Rock AR

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

AC Inspection as Found

Lexicon (10257)
8900 Fouche Dam Pike
Little Rock, AR

FolderID: 104354
FormID: 23854796

AC Inspection - Rev. 2

Location: LR MOTOR SHOP

Serial Number: 023471B-6

Description: 4 HP REULAND

Hi-Speed Job Number: 104354

Manufacturer: Reuland

Product Number: 13273

Serial Number: 023471B-6

HP/kW: 4 (HP)

RPM: 1800 (RPM)

Frame: WEO-215/H4

Voltage: 460

Current: 5.3 (Amps)

Phase: Three

Hz: 60 (Hz)

Enclosure: TENV

of Leads: 3

J-box Included: None

Coupling/Sheave: Coupling

Date Received: 03/24/2025

Bearing RTDs: No

Stator RTDs: No

Repair Stage: Final

Rewind: Yes

**Shaft Machined Fit Repairs
Required:** Yes

**Bearing Housing Machined
Fit Repairs Required:** Yes

Heaters: No

Winding Type : Random Wound

Bearing Type: Rolling Element

Priorities Found: 3 - High 7 - Good

Overall Condition

1. Report Date

03/27/2025

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Printed on 5/13/2025

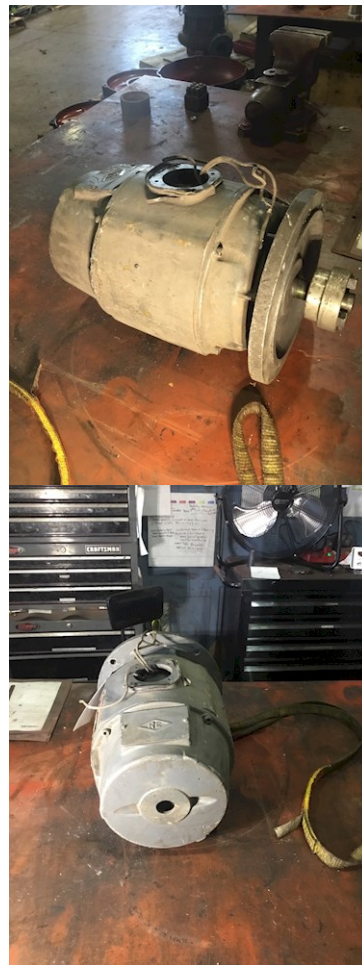
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1.0

2. Nameplate Picture



3. Photos of all six sides of the machine.



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1.2



4.	Describe the Overall Condition of the Equipment as Received	
	<i>Serviceable</i>	
5.	Distance from the end of the shaft to the Coupling/Sheave	inches
	<i>23mm</i>	
Initial Mechanical/Electrical		
6.	Does Shaft Turn Freely?	(N) No
7.	Does the shaft require T.I.R in Lathe to identify additional repairs?	(No) No
8.	Does Shaft Have Visible Damage?	(No) No
9.	Assembled Shaft Runout	Inches
	<i>Unable to perform due to locked up shaft.</i>	
10.	Assembled Shaft End Play	0 inches
11.	Air Gap Variation <10%	

12. Lead Condition

(P) Pass



13.	Lead Length			10 Inches
14.	Does it have Lugs?, If so what is the Stud Size?			(No) No
15.	Lead Numbers			4,5,6
16.	Frame Condition			pass
17.	Fan Condition			
18.	Does motor have internal fan?			(No) No
19.	Broken or Missing Components			none
Initial Electrical Inspection				
20.	Insulation Resistance/Megger			Megohms
21.	Winding Resistance			
	1-2	1-3	2-3	
22.	Perform Surge Test			
23.	Number of Stator Slots			36
24.	Stator Condition			rewind
25.	Stator Thermistors/Ohms			
26.	Stator Overloads/Ohms			
Mechanical Inspection				
27.	Drive End Bearing Brand			SKF
28.	Drive End Bearing Number-			



29. Drive End Bearing Qty.	1
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30. Drive End Bearing Type	(Ball) Ball Bearing
31. Drive End Lubrication Type	(Grease) Grease Lubricated
32. Drive End Bearing Insulation or Grounding Device?	none
33. Drive End Wavy Washer/Snap-Ring Other Retention Device?	none
34. Drive End Bearing Condition	replace
35. Opposite Drive End Bearing Brand	SKF





36. Opposite Drive End Bearing Number-	6306 2Z / C3
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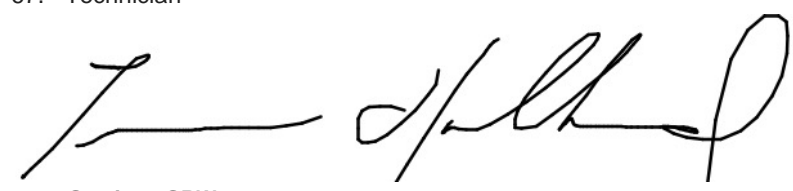


37. Opposite Drive End Bearing Qty.	1
38. Opposite Drive End Bearing Type	(Ball) Ball Bearing
39. Opposite Drive End Lubrication Type	(Grease) Grease Lubricated
40. Opposite Drive End Bearing Insulation or Grounding Device?	none
41. Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?	none
42. Opposite Drive End Bearing Condition	replace
43. Drive End Seal	none
44. Opposite Drive End Seal	none

Rotor Inspection

45. Rotor Type/Material	(Squirrel Aluminum) Squirrel Cage Aluminum Die Cast
46. Growler Test  Wound rotor	
47. Number of Rotor Bars  Wound rotor with 24slots.	

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48. Rotor Condition			
 <i>Rewind required</i>			
49. List the Parts needed for the Repair Below			
<i>(2) 6306 2Z / C3 bearings</i> <i>ODE shaft fit bad</i> <i>ODE housing fit bad - 306 sleeve needed</i> <i>Rewind stator & rotor.</i>			
50. Signature of Technician that Disassembled Motor	Terrence Holland		
			
Mechanical Fits- Rotor			
51. Shaft Runout	0.002 inches		
52. Rotor Runout			
Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing	
53. Coupling Fit Closest to Bearing Housing			
0 Degrees	90 Degrees	120 Degrees	
54. Coupling Fit Closest to the end of the Shaft			
0 Degrees	60 Degrees	120 Degrees	
1.1245	1.1245	1.1246	
55. Drive End Bearing Shaft Fit			
0 Degrees	60 Degrees	120 Degrees	
1.1816	1.1817	1.1818	
 56. Drive End Bearing Shaft Fit Condition	(P) Pass		
57. Opposite Drive End Bearing Shaft Fit			
0 Degrees	60 Degrees	120 Degrees	
1.1803	1.1803	1.1803	
 <i>Minimum allowed is 1.1812</i>			
 58. Opposite Drive End Bearing Shaft Fit Condition	(F) Fail		
59. Shaft Air Seal Fits			
Drive End Air Seal	Opposite Drive End Air Seal		
Mechanical Fits- Bearing Housings			
60. Drive End - Endbell Bearing Fit			
0 Degrees	60 Degrees	120 Degrees	
2.8347	2.8348	2.8348	
 61. Drive End - Endbell Bearing Fit Condition	(P) Pass		
62. Opposite Drive End - Endbell Bearing Fit			
0 Degrees	60 Degrees	120 Degrees	
2.836	2.836	2.8358	
 63. Opposite Drive End - Endbell Bearing Fit Condition	(F) Fail		
64. Bearing Cap Condition			
Drive End Bearing Cap	Opposite Drive End Bearing Cap		

65. End Bell Air Seal Fits	
Drive End Air Seal	Opposite Drive End Air Seal
66. List Machine Work Needed Below <i>Sleeve ODE housing fit. Repair ODE shaft bearing fit.</i>	
67. Technician	Terrence Holland
<div></div> <div> Co sign: CRW</div>	
Root Cause of Failure	
68. Failure locations <i>Stator and rotor windings bad. ODE housing fit and shaft it's bad.</i>	
69. Root cause of failure <i>Rotor windings shorted near balance putty area.</i>	
	
Dynamic Balance Report	
70. Rotor Weight and Balance Grade	
Rotor Weight	Balance Grade

71. Initial Balance Readings

Drive End

Opposite Drive End

NEMA Spec: 1.50 mil
Balancing RPM: 414.20

Balance

Start

Right End Mils: 0.01
Angle: 291.29

Left End Mils: 1.02
Angle: 55.30

Beginning unbalance: 34.1
Residual unbalance: 19.1
This item is balanced to: 47.98

Key Read
Drive End: 0.00 in wide = 0.00
Motor End: 0.00 in wide = 0.00

72. Final Balance Readings

Drive End

Opposite Drive End

Conditions

Finish

Mils: 0.01 in/s: 0.000
Angle: 306.56
Mils: 0.46 in/s: 0.010
Angle: 37.49

Net: 34.546 g-in, 1.219 oz-in Right Side
212.454 g-in, 7.494 oz-in Left Side
Net: 19.18 g, 0.68 oz Right Side
38.63 g, 1.36 oz Left Side
Net: 47.945 g-in, 1.691 oz-in Right Side
96.524 g-in, 3.405 oz-in Left Side

in wide = 0.00 in thick = 0.00 in long
in wide = 0.00 in thick = 0.00 in long

73. Technician

Cw



Rewind

74. Core Test Results - Watts loss per Pound

Pre-Burnout

Post Burnout

75. Core Hot Spot Test

Pre-Burnout

Post-Burnout

76. Post Rewind Electrical Test- Insulation Resistance


Megohms

77. Post Rewind Polarization Index

Polarization Index

78. Post Rewind Winding Resistance			
1-2	1-3	2-3	
79. Post Rewind Surge Test			
80. Post Rewind Hi-Pot			micro-amps
81. Technician			
Mechanical Fits- Rotor - Post Repair			
82. Shaft Runout Post Repair			inches
83. Rotor Runout Post Repair			
Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing	
84. Coupling Fit Closest to Bearing Housing Post Repair			
0 Degrees	90 Degrees	120 Degrees	
85. Coupling Fit Closest to the end of the Shaft Post Repair			
0 Degrees	60 Degrees	120 Degrees	
86. Drive End Bearing Shaft Fit Post Repair			
0 Degrees	60 Degrees	120 Degrees	
87. Opposite Drive End Bearing Shaft Fit Post Repair			
0 Degrees	60 Degrees	120 Degrees	
1.1815	1.1815	1.1815	




88. Shaft Air Seal Fits Post Repair			
Drive End Air Seal	Opposite Drive End Air Seal		
89. Shaft Repair Sign-off			RW
			
Mechanical Fits- Bearing Housings - Post Repair			
90. Drive End - Endbell Bearing Fit Post Repair			
0 Degrees	60 Degrees	120 Degrees	

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91. Opposite Drive End - Endbell Bearing Fit Post Repair		
0 Degrees	60 Degrees	120 Degrees
2.8347	2.8347	2.8347



92. Bearing Cap Condition Post Repair		
Drive End Bearing Cap		Opposite Drive End Bearing Cap
93. End Bell Air Seal Fits Post Repair		
Drive End Air Seal		Opposite Drive End Air Seal
94. End Bell Repair Sign-off		Gary

Assembly		
95. QC Check All Parts for Cleanliness Prior to Assembly		Cw
		

96. Photograph All Major Components prior to assembly



97. Final Insulation Resistance Test	Megohms	
98. Assembled Shaft Endplay	inches	
99. Assembled Shaft Runout	inches	
100. Test Run Voltage		
Volts	Volts	Volts



101. Test Run Amperage		
Amps	Amps	Amps
<div> <div></div> <div>Witnessed by RRW</div> </div>		



102. Drive End Vibration Readings - Inches Per Second		
Horizontal	Vertical	Axial
103. Opposite Drive End Vibration Readings - Inches Per Second		
Horizontal	Vertical	Axial
104. Ambient Temperature - Fahrenheit		
105. Drive End Bearing Temps - Fahrenheit		
5 Minutes	10 Minutes	15 Minutes
106. Opposite Drive End Bearing Temps - Fahrenheit		
5 Minutes	10 Minutes	15 Minutes
107. Document Final Condition with Pictures after paint		



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108. Final Pics and QC Review

Cw



Co sign:RRW



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

AC Random Coil Rewind Report

FolderID: 104354
FormID: 24028462

Lexicon (10257)

8900 Fouche Dam Pike
Little Rock, AR

LR MOTOR SHOP

Priorities Found: ● 2 - Good

General

1. Job Number	104354
Stator	
2. Report Date	04/07/2025
3. Customer	Prospect Steel

Stator Winding

4. Core Length	4.25 "
5. Core ID	5.125 "
6. Back Iron Depth	1 "
7. Slot Depth	0.875 "
8. Tooth Width	1.675 "
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	1.389 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	0.888 W/lbs.
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	
27. Number of Poles	4
28. Slots	36
29. Number of Coils	36
30. Coil Weight	
31. Lead Markings	
32. Grouping	
12 Groups 3	
33. Multiple Wires	

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34. Wire Size	
3#20	
35. Turns per coil	21
36. Pitch 1 to:	8
37. Connection	
1 Wye	
38. Lead Length	3 "
39. Lead Size	16
40. Number of Leads	3
41. Megger Reading After Rewind	
42. Coil Machine Slot	
43. Coil Machine Tip	
44. Coil Machine Pitch	
45. Hi Pot Reading After Rewind	
46. Surge Pattern After Rewind	
47. Service Technician	RHR
	
<p>1 #21 copper wire 7lbs 1 # 22 copper wire 7 lbs 1 # 12 EPDM Lead Wire</p>	



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

AC Random Coil Rewind Report

FolderID: 104354
FormID: 24030496

Lexicon (10257)

8900 Fouche Dam Pike
Little Rock, AR

LR MOTOR SHOP

Priorities Found: ● 2 - Good

General

1. Job Number 104354

■ Rotor

2. Report Date 01/07/2025

3. Customer Prospect Steel

Stator Winding

4. Core Length 4 "

5. Core ID 5 "

6. Back Iron Depth 1.125 "

7. Slot Depth 0.625 "

8. Tooth Width 0.25 "

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 0.694 W/lbs.

● 15. After Burnout Core Loss (P) Pass

16. Flux After burnout

17. Watts After Burnout

18. Watts loss per lb After Burnout 0.694 W/lbs.

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

27. Number of Poles 4

28. Slots 24

29. Number of Coils 24

30. Coil Weight

31. Lead Markings

32. Grouping

12#2

33. Multiple Wires

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34. Wire Size	
3#21	
35. Turns per coil	11
36. Pitch 1 to:	6
37. Connection	
1-2-3-Make. A. wye And. Make. Wye. No. Leads. Off. Rotor	
38. Lead Length	0 "
39. Lead Size	0
40. Number of Leads	0
41. Megger Reading After Rewind	0.317 Mohms
☐ Rotor 16387	
42. Coil Machine Slot	
43. Coil Machine Tip	
44. Coil Machine Pitch	
45. Hi Pot Reading After Rewind	0.33 Ua
☐ Rotor 0.11717	
46. Surge Pattern After Rewind	
47. Service Technician	RHRb
	
☐ 2 # 22 copper wire	



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10. **SEVERABILITY.** The partial or complete invalidity of any provision of these Standard Terms and Conditions shall not affect the enforceability of the remainder of these Standard Terms and Conditions. If any provision is found to be invalid or unenforceable, that portion shall be modified to make it enforceable or shall be stricken and the remainder of these Standard Terms and Conditions shall enforced.
11. **GOVERNING LAW AND JURISDICTION.** Any controversy arising out of any quotation, the purchase order, the goods sold or delivered, repair or replacement thereof, or any services provided pursuant to any quotation or any purchase order, or these Standard Terms and Conditions shall be governed by the laws of the state of Tennessee without regard to any choice of law provisions and any cause of action related in any manner thereto shall be brought only in the state or federal courts of Shelby County, Tennessee.
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.
15. **ASSIGNMENT.** The rights and obligations of the parties shall neither be assigned nor delegated without the prior written consent of the other party. However, any party may assign or delegate its respective rights and obligations, in whole or in part, (i) to any subsidiary, (ii) pursuant to other financing, merger or reorganization or (iii) pursuant to any sale or transfer of substantially all of the assets of the assigning party. These Standard Terms and Conditions shall bind the heirs, successors and assigns of the parties hereto.
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.