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LR Motor Shop Repairs

**Job Number 104380**

Prepared for RAIL SERVICE GROUP

3100 SPRINGER BLVD  
LITTLE ROCK AR 72206

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

AC Recondition Repair Report

FolderID: 104380  
FormID: 23927259

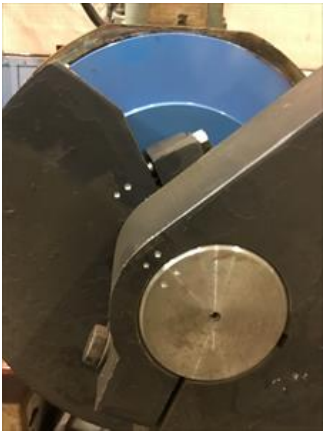
RAIL SERVICE GROUP  
3100 SPRINGER BLVD  
LITTLE ROCK, AR 72206

Priorities Found: 1 - High 20 - Good

General	
1. Job Number	104380
2. Report Date	03/31/2025
3. Customer	Rail Service Group
Name Plate Information	
4. Manufacturer	Vimrk



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Printed on 4/17/2025

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5. Model	kxz2000-8
6. Serial Number	0102777
7. Horsepower	10 HP
8. KW	7.3 KW
9. Volts	460 Volts
10. Amps	18 Amps
11. RPM	885 RPM
12. Frame	
13. Enclosure	tenv
14. Cycles	60 HZ
15. Phase	3 PH
16. Service Factor	1.5
17. Motor Mount Position	F3
<b>Initial Inspection</b>	
18. Number of Leads	6
19. Lead Length	12 Inches
20. Lead Size	10
21. Lead Condition	(P) Pass
22. Lead Markings	UVW 1 UVW 2
23. Lug Size, Condition, and Type	
8mm	
24. Winding RTD's	

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25.	Winding Rtd's Condition	
26.	Shaft Run Out	0
27.	Does Shaft Turn Freely	yes
28.	Does Shaft Have Visible Damage	no
29.	Bearing Rtd's	
30.	Bearing Rtd's Condition	
31.	Contamination Grease	
32.	Frame Condition	(P) Pass
33.	Fan Condition	
34.	Broken or missing components None	
<b>Initial Electric Test</b>		
35.	Resistance to Ground	0 Mohm
36.	Winding Resistance 1-2	0 Ohm
37.	Winding Resistance 2-3	0 Ohm's
38.	Winding Resistance 1-3	0 Ohm's
39.	Resistive Imbalance	0 %
40.	Hi-Pot	Ua
41.	Surge Test	(F) Fail
42.	Stator Condition	rewind
43.	Failure Location	edge of iron
<b>Initial Rotor Inspection</b>		
44.	Rotor Type	cast aluminum
45.	Air Gap <10% Variation	(P) Pass
46.	Number of Rotor Bars	43
47.	Number of Broken Rotor Bars	0
48.	Growler Test	(P) Pass
49.	Rotor Condition	(P) Pass
<b>Mechanical Inspection</b>		
50.	Bearing Manufacture	fog
51.	Bearing DE Size	NJ2319EC4
52.	Bearing DE Type	roller
53.	DE Bearing Qty.	1
54.	Bearing ODE Size	NJ2319EC4
55.	Bearing ODE Type	roller
56.	ODE Bearing Qty.	1
57.	Insulated Bearing	
58.	Lubrication Type	grease
59.	Grease Condition	(P) Pass
60.	Bearing Retainers	
61.	Shaft Grounding Device	
62.	DE Seal	
63.	DE Seal Type/Size	
64.	ODE Seal	
65.	ODE Seal Type/Size	
<b>Root Cause of Failure</b>		

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66. Component Failure	stator
67. Cause of Failure <i>Overloaded</i>	
68. Comments <i>2-NJ2319EC4</i>	
69. Service Technician	David Maclin
	

### Machine Fit Inspection Report

70. Shaft Run Out	(P) Pass
71. Initial Shaft Run Out	0 "
72. Final Shaft Run Out	"
73. DE Bearing Shaft Fit	(P) Pass
74. DE Initial Shaft Bearing Fit Size 1	3.745 "
75. DE Initial Shaft Bearing Fit Size 2	3.7415 "
76. DE Initial Shaft Bearing Fit Size 3	3.7415 "
77. DE Finial Shaft Bearing Fit Size 1	"
78. DE Finial Shaft Bearing Fit Size 2	"
79. DE Finial Shaft Bearing Fit Size 3	"
80. ODE Bearing Shaft Fit	(P) Pass
81. ODE Initial Shaft Bearing Fit Size 1	3.7413 "
82. ODE Initial Shaft Bearing Fit Size 2	3.7413 "
83. ODE Initial Shaft Bearing Fit Size 3	3.743 "
84. ODE Finial Shaft Bearing Fit Size 1	"
85. ODE Finial Shaft Bearing Fit Size 2	"
86. ODE Finial Shaft Bearing Fit Size 3	"
87. DE Air Seal Shaft Fit	(P) Pass
88. DE Initial Air Seal Shaft Size	"
89. DE Final Air Seal Shaft Size	"
90. ODE Air Seal Shaft Fit	(P) Pass
91. ODE Initial Air Seal Shaft Size	"
92. ODE Final Air Seal Shaft Size	"
93. DE Endbell Fit	(P) Pass
94. DE Initial Endbell Fit Size 1	7.874 "
95. DE Initial Endbell Fit Size 2	7.874 "
96. DE Initial Endbell Fit Size 3	7.874 "
97. DE Final Endbell Fit Size 1	"
98. DE Finial Endbell Fit Size 2	"
99. DE Final Endbell Fit Size 3	"
100. DE Endbell Fit Insulated	
101. DE Endbell Air Seal Fit	(P) Pass
102. Initial Endbell Air Seal Fit Size	"
103. Finial Endbell Air Seal Fit Size	"
104. ODE Endbell Fit	(P) Pass
105. ODE Initial Endbell Fit Size 1	7.8742 "

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106. ODE Initial Endbell Fit Size 2	7.8742 "
107. ODE Initial Endbell Fit Size 3	7.8742 "
108. ODE Final Endbell Fit Size 1	"
109. ODE Final Endbell Fit Size 2	"
110. ODE Final Endbell Fit Size 3	"
111. ODE Endbell Fit Insulated	
● 112. ODE Endbell Air Seal Fit	(P) Pass
113. ODE Initial Endbell Seal Fit Size	"
114. ODE Final Endbell Seal Fit Size	"
● 115. Foot Flatness	(P) Pass
● 116. Foot Condition	(P) Pass
● 117. Flange Condition	(NA) Not Applicable
118. Service Technician	David Maclin



### Balancing Report

119. Balance Type	
120. Balance Operating Speed	RPM
121. Start Left End	Mills
122. Start Right End	Mills
123. Balancing Specification	
124. Finish Left End	Mills
125. Finish Right End	Mills
126. Service Technician	

### Assembly and Final Test

127. Meggar Testing Reading	7,960 Mohm
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● 128. Surge Test	(P) Pass
129. Hi-Pot	Ua
130. Winding Resistance 1-2	Ohm's
131. Winding Resistance 2-3	Ohm's
132. Winding Resistance 1-3	Ohm's

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133. Test Run Voltage Phase A

458 Volts



Co sign DM

134. Test Run Amps A

3.8 Amps



135. Test Run Voltage Phase B

456 Volts



136. Test Run Amps B

3.8 Amps

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137. Test Run Voltage Phase C

**458 Volts**



138. Test Run Amps C

**3.8 Amps**



139. DE Horizontal Vibration Reading	<b>In/Sec</b>
140. DE Vertical Vibration Reading	<b>In/Sec</b>
141. DE Axial Vibration Reading	<b>In/Sec</b>
142. ODE Horizontal Vibration Reading	<b>In/Sec</b>
143. ODE Vertical Vibration Reading	<b>In/Sec</b>
144. ODE Axial Vibration Reading	<b>In/Sec</b>
145. Ambient Temp at start of Test Run	<b>Degrees F.</b>
146. Temp at 5 minutes	<b>Degrees F.</b>

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147. Temp at 10 minutes	Degrees F.
148. Temp at 15 minutes	Degrees F.
149. Temp at 20 minutes	Degrees F.
150. Temp at 25 minutes	Degrees F.
151. Temp at 30 minutes	Degrees F.
152. Temp at 35 minutes	Degrees F.
153. Temp at 40 minutes	Degrees F.
154. Temp at 45 minutes	Degrees F.
155. Temp at 50 minutes	Degrees F.
156. Temp at 55 minutes	Degrees F.
157. Temp at 60 minutes	Degrees F.
● 158. Motor Paint	(P) Pass









159. Service Technician

RW

A large, stylized handwritten signature in black ink, likely belonging to the Service Technician.

Co sign DM



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

## AC Random Coil Rewind Report

FolderID: 104380  
FormID: 23947851

**RAIL SERVICE GROUP**  
3100 SPRINGER BLVD  
LITTLE ROCK, AR 72206


Priorities Found: ● **5 - Good**

General	
1. Job Number	104380
2. Report Date	
3. Customer	Rail Services Group
Stator Winding	
4. Core Length	8 "
5. Core ID	7.375 "
6. Back Iron Depth	0.5 "
7. Slot Depth	1 "
8. Tooth Width	0.25 "
9. Number of Vents	
10. Vent Width	"
<span style="color: green;">●</span> 11. Before Burnout Core loss	(P) Pass
12. Flux Before Burnout	
13. Watts before burnout	Watts
14. Watts loss per lb. before burnout	1.455 W/lbs.
15. After Burnout Core Loss	
16. Flux After burnout	
17. Watts After Burnout	Watts
18. Watts loss per lb After Burnout	W/lbs.
<span style="color: green;">●</span> 19. Core Iron Condition	(P) Pass
20. RTD's	(NA) Not Applicable
21. RTD's Reading	Ohm's
22. Motor Heaters	(NA) Not Applicable
23. Heater Qty.	
24. Heater Voltage	Volts
25. Heater Wattage	Watts
26. Thermistors	(NA) Not Applicable
27. Number of Poles	8
28. Slots	48
29. Number of Coils	48
30. Coil Weight	14.4 Lbs.
31. Lead Markings	
1-6	
32. Grouping	
24-2	
<span style="color: green;">●</span> 33. Multiple Wires	(Y) Yes

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34. Wire Size 21	
35. Turns per coil	33
36. Pitch 1 to:	5
37. Connection 2Y2D	
38. Lead Length	10 "
39. Lead Size	14
40. Number of Leads	6
41. Megger Reading After Rewind	34234 Mohms
42. Coil Machine Slot	9.25
43. Coil Machine Tip	2
44. Coil Machine Pitch	9.25
45. Hi Pot Reading After Rewind	0.014 Ua
46. Surge Pattern After Rewind	(P) Pass



47. Service Technician	RW
	





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1. **APPLICABILITY.** The sale of any and all goods and/or services by Mock, Inc. d/b/a Hi-Speed Industrial Service ("Hi-Speed") shall be specifically conditioned upon and subject to the following terms and conditions which are incorporated by reference into any contracts and purchase orders with Hi-Speed, and which shall form and become a part of any agreement related thereto. Buyer's acceptance of any offer or quotation made by Hi-Speed for sale of any goods or services is expressly made subject to the terms and conditions set forth herein and to be so effective, Buyer need not sign or approve these Terms and Conditions to be bound hereunder provided a copy of same is provided to Buyer through any means. None of the terms and conditions contained herein may be added to, expanded, changed, modified, superseded or otherwise altered except as revised in writing and duly executed by Hi-Speed, and all orders received by Hi-Speed shall be governed only by the terms and conditions contained herein, notwithstanding any terms, conditions or provisions of any purchase order, release order, authorization or any other form issued by the Buyer. Hi-Speed hereby objects to any additional, modified, changed, deleted, altered or other terms and conditions not contained herein and notifies Buyer that any such terms or provisions are expressly rejected by Hi-Speed.
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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8. **WARRANTIES.** Hi-Speed warrants that all goods shall conform in all material aspects to the goods identified in the quotation to Buyer and/or purchase order, and Hi-Speed makes to Buyer the manufacturer's express warranty for any goods sold to Buyer, which is offered by the manufacturer at the time of acceptance of any quotation by Buyer. This warranty is conditioned upon the installation, operation, and maintenance of the goods in accordance with the manufacturer's recommendations and/or standard industry practice and the goods at all times being operated or used under normal operating conditions for which they were designed. Hi-Speed, at its sole option, will repair or



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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.