



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

LR Motor Shop Repairs

Job Number 100338

Prepared for Ryerson (10858)

7701 Lindsey rd
Little rock ar 72206

Table of Contents



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

DC Repair Report

Ryerson (10858)
7701 Lindsey rd
Little rock, ar 72206

FolderID: 100338
FormID: 14637549

DC Repair Report Rev. 2

Location: Roller

Job Number:

Status: In need of Repair

Priorities Found: ● 2 - High ● 6 - Good

Overall Condition

1. Describe the Overall Condition of the Equipment as Received



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2. Nameplate Picture
3. Distance From the End of the Shaft to the end of the Face of the Sheave/Coupling

Initial Mechanical/Electrical

- | | |
|------------------------------------|--------------|
| 4. Does the Shaft Turn Freely? | (Y) Yes |
| 5. Does Shaft Have Visible Damage? | (No) No |
| 6. Assembled Shaft Runout | 0.001 Inches |
| 7. Assembled Shaft End Play | |
| 8. Air Gap Variation <10% | |
| 9. Lead Condition | |
| 10. Lead Length | Inches |
| 11. Frame Condition | (P) Pass |
| 12. Fan Condition | (P) Pass |
| 13. Brush Information | |

Brush Number	Quantity	Condition
25-751591	16	good



14. Brush Holder Condition - Verify proper gap to Commutator

Incoming Electrical Test

- | | |
|---|---|
| 15. General Condition of the Armature/Commutator | turn and under comm. armature tested good |
| 16. Armature Insulation Resistance to Ground | 2000 Megohms |
| 17. Field Circuit Insulation Resistance to Ground | 1000 Megohms |
| 18. Interpole Circuit Insulation Resistance to Ground | |

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19. Field Drop Test Fields 1&2		
Total AC Voltage	Field #1	Field #2
	3.2	3.2
20. Field Drop Test Fields 3&4		
Field #3	Field #4	Field #2
3.1	3.2	
21. Field Drop Test Fields 5&6		
Field #5	Field #6	Field #2
22. Field Drop Test Fields 7&8		
Field #7	Field #8	Field #2
23. Interpole Drop Test 1&2		
Total AC Voltage	Interpole #1	Interpole #2
	0.6	0.4
24. Interpole Drop Test 3&4		
Interpole #3	Interpole #4	Field #2
0.6	0.6	
25. Interpole Drop Test 5&6		
Interpole #5	Interpole #6	Field #2
26. Interpole Drop Test 7&8		
Interpole #7	Interpole #8	Field #2
27. Armature Number of Bars - Bar to Bar Test		
Number of Bars	Bar to Bar Test	
<div> <div></div> Pass </div>		
Mechanical Inspection		
28. Shaft Runout Drive End		0.001 inches
29. Shaft Runout Armature		
Drive End Bearing Journal	Armature Core	ODE Bearing Journal
30. Drive End Bearing Number		
		6214
31. Drive End Bearing Quantity		
		1
32. Drive End Bearing Type		
		(Ball) Ball Bearing
33. Drive End Lubrication Type		
		(Grease) Grease Lubricated
34. Drive End Bearing Insulation or Grounding Device?		
<div> <div></div> None </div>		
35. Drive End Wavy Washer/Snap-Ring Other Retention Device?		
36. Drive End Bearing Condition		worn
37. Opposite Drive End Bearing Number		
		6213
38. Opposite Drive End Bearing Quantity		
		1
39. Opposite Drive End Bearing Type		
		(Ball) Ball Bearing
40. Opposite Drive End Lubrication Type		
		(Grease) Grease Lubricated
41. Opposite Drive End Bearing Insulation or Grounding Device?		
42. Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?		
43. Opposite Drive End Bearing Condition		worn

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44. Signature of Technician who Performed Teardown

Terrence. Holland/David Maclin



45. List Parts Needed Prior to Reassembly

Aegis ring, o.d.e insulated housing fit or bearing. Re-sleeve drive end bearing housing fit.

Mechanical Fits - Armature

46. Coupling Fit Closest to Bearing Housing

0 Degrees	60 degrees	120 degrees

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
2.7562	2.7561	2.7562

49. Drive End Bearing Shaft Fit Condition (P) Pass

50. Opposite Drive End Bearing Shaft Fit

0 Degrees	60 Degrees	120 Degrees
2.5594	2.5593	2.5594

51. Opposite Drive End Bearing Shaft Fit Condition (P) Pass

52. Shaft Air Seal Fits

Drive End Air Seal	Opposite Drive End Air Seal

Mechanical Fits- Bearing Housings

53. Drive End - End Bell Bearing Fit

0 Degrees	60 Degrees	120 Degrees
4.9224	4.9224	4.9223

54. Drive End - Endbell Bearing Fit Condition (F) Fail

Pitted

55. Opposite Drive End - End Bell Bearing Fit

0 Degrees	60 Degrees	120 Degrees
4.7256	4.7255	4.7256

Measures too large.

56. Opposite Drive End - Endbell Bearing Fit Condition (F) Fail

Re-sleeve

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



58. End Bell Air Seal Fits	
Drive End Air Seal	Opposite Drive End Air Seal

59. List any Machine work Needed Below	sleeve both housing fits
60. Signature of Technician Performing Measurements	Terrence. Holland

Terrence Holland

Dynamic Balance Report

61. Rotor Weight and Balance Grade	
Rotor Weight	Balance Grade
62. Initial Balance Readings	
Drive End Readings	Opposite Drive End Readings
63. Final Balance Readings	
Drive End Readings	Opposite Drive End Readings
64. Signature of the Balance Technician	

Commutator Data

65.	Total Copper Segment Length		
66.	Number of Bars		
67.	Number of Wires Per Copper Bar and Size		
	Number of Wires per Bar	Wire Size	
68.	Equalizers per Copper Bar and Equalizer Wire Size		
	Equalizers per Bar	Wire Size	
69.	Document Commutator Diameter, Minimum and Max		
	Current Comm Diameter	Minimum Comm Diameter	Maximum Comm Diameter

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70. Commutator Shaft Diameter	
Front Shaft Diameter	Back Shaft Diameter
71. Commutator Type	
72. Commutator Bore	
73. Signature of Technician Recording Data	
Post Armature Rewind Testing	
74. Post Rewind Armature Insulation Resistance to Ground	Megohms



75.	Post Rewind Field Circuit Measure the Insulation Resistance to Ground		
76.	Post Rewind Armature Number of Bars - Bar to Bar Test		
	Number of Bars	Bar to Bar Test	
77.	Post Rewind Field Circuit Insulation Resistance to Ground		
78.	Post Rewind Interpole Circuit Insulation Resistance to Ground		
79.	Post Rewind Field Drop Test Fields 1&2		
	Total AC Voltage	Field #1	Field #2
80.	Post Rewind Field Drop Test Fields 3&4		
	Field #3	Field #4	Field #2
81.	Post Rewind Field Drop Test Fields 5&6		
	Field #5	Field #6	Field #2
82.	Post Rewind Field Drop Test Fields 7&8		
	Field #7	Field #8	Field #2
83.	Post Rewind Interpole Drop Test 1&2		
	Total AC Voltage	Interpole #1	Interpole #2
84.	Post Rewind Interpole Drop Test 3&4		
	Interpole #3	Interpole #4	Field #2
85.	Post Rewind Interpole Drop Test 5&6		
	Interpole #5	Interpole #6	Field #2

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86. Post Rewind Interpole Drop Test 7&8		
Interpole #7	Interpole #8	Field #2
Post Mechanical Repair		
87. Post Repair Coupling Fit Closest to Bearing Housing		
0 Degrees	60 degrees	120 degrees
88. Post Repair Coupling Fit Closest to the End of the Shaft		
0 Degrees	60 degrees	120 degrees
89. Post Repair Drive End Bearing Shaft Fit		
0 Degrees	60 Degrees	120 Degrees
90. Post Repair Drive End Bearing Shaft Fit Condition		
91. Post Repair Drive End Opposite Drive End Bearing Shaft Fit		
0 Degrees	60 Degrees	120 Degrees
92. Post Repair Drive End Opposite Drive End Bearing Shaft Fit Condition		
93. Post Repair Drive End - End Bell Bearing Fit		
0 Degrees	60 Degrees	120 Degrees
4.922	4.922	4.9219



94. Post Repair Drive End - Endbell Bearing Fit Condition		
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95. Post Repair Opposite Drive End - End Bell Bearing Fit		
0 Degrees	60 Degrees	120 Degrees
4.725	4.7248	4.7247



96. Post Repair Opposite Drive End - Endbell Bearing Fit Condition		
97. Post Repair Bearing Cap Condition		
Drive End	Opposite Drive End	
98. Post Repair End Bell Air Seal Fits		
Drive End Air Seal	Opposite Drive End Air Seal	
99. Signature of Tech Performing Mechanical Repairs		
Assembly		
100. Take Pictures of all Major Components Prior to Reassembly		





101. Verify Brush Box Holders Have the Proper Clearance, and Brushes have been Seated Properly	
102. Assembled Shaft End Play and Runout	
Shaft Endplay	Shaft Runout
103. Perform No-Load Test Run, Record Armature Voltage and Current	
Voltage	Current



104. Perform No-Load Test Run, Record Field Voltage and Current	
Voltage	Current

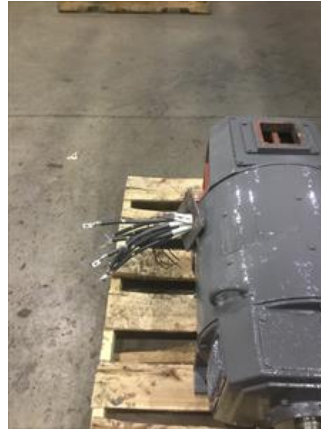
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105.	Document Vibration Readings Drive End		
	Horizontal	Vertical	Axial
106.	Document Vibration Readings Opposite Drive End		
	Horizontal	Vertical	Axial
107.	Perform Full-Load Test Run, Record Armature Voltage and Current		
	Voltage	Current	
108.	Perform Full-Load Test Run, Record Field Voltage and Current		
	Voltage	Current	
109.	Document Vibration Readings Under Full Load Drive End		
	Horizontal	Vertical	Axial
110.	Document Vibration Readings Under Full Load Opposite Drive End		
	Horizontal	Vertical	Axial
111.	Ambient Temperature		
112.	Drive End Bearing Temps Under Full Load		
	5 Minutes	10 Minutes	15 Minutes

113. Opposite Drive End Bearing Temps Under Full Load			
5 Minutes		10 Minutes	15 Minutes
114. Final Test Run Sign-Off			
115. Document Final Condition With Pictures			





116. Final QC Sign-Off

RW

A handwritten signature in black ink, consisting of stylized letters that appear to be 'RW'.



STANDARD TERMS AND CONDITIONS FOR PURCHASE OF GOOD AND/OR SERVICES

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.
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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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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.