



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

LR Motor Shop Repairs

Job Number 100815

Prepared for Union Pacific-Vine St 10945

1020 N. Vine Street
North Little Rock AR

Table of Contents



Hi-Speed Industrial Service
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Millington, Tn 38053
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DC Repair Report
Union Pacific-Vine St 10945
1020 N. Vine Street
North Little Rock, AR

FolderID: 100815
FormID: 15770232

DC Repair Report Rev. 2

Location: Shop
Job Number: 100815
Serial Number: 4343
Status: In For Repair
Description:HAULOTTE 48V DC HOIST MOTOR

Hi-Speed Job Number: 100815
Manufacturer: Other
Product Number : 2901002650
Serial Number: 4343
Armature Voltage: 48 (Volts)
J-Box Included: Yes
Bearing RTDS: No
Winding RTDS: No
Mounting Orientation : Horizontal

Priorities Found: ● **9 - Good**

Overall Condition

1. Describe the Overall Condition of the Equipment as Received
Commutator was burnt from brushes not making proper contact.

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	
7.	Assembled Shaft End Play	
8.	Air Gap Variation <10%	

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9. Lead Condition

(P) Pass



10. Lead Length	Inches	
11. Frame Condition	(P) Pass	
12. Fan Condition	(NA) Not Applicable	
13. Brush Information		
Brush Number	Quantity	Condition
B89-012F A-120	4	bad




14. Brush Holder Condition - Verify proper gap to Commutator

pass



Incoming Electrical Test

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15.	General Condition of the Armature/Commutator		commutator is burnt and needs turned/undercut
	Windings look good.		
16.	Armature Insulation Resistance to Ground		2000 Megohms
17.	Field Circuit Insulation Resistance to Ground		2000 Megohms
18.	Interpole Circuit Insulation Resistance to Ground		
19.	Total Field Ohms		0.8
20.	Field Ohms		
	Between F1/F2	Between F3/F4	
21.	MegOhms between Fields and Series		
22.	Series Drop Test 1&2		
	Series 1	Series 2	
23.	Series Drop Test 3&4		
	Series 3	Series 4	
24.	Field Drop Test Fields 1&2		
	Total AC Voltage	Field #1	Field #2
	15	2	2
25.	Field Drop Test Fields 3&4		
	Field #3	Field #4	Field #2
	2	2	
26.	Field Drop Test Fields 5&6		
	Field #5	Field #6	Field #2
27.	Field Drop Test Fields 7&8		
	Field #7	Field #8	Field #2
28.	Interpole Drop Test 1&2		
	Total AC Voltage	Interpole #1	Interpole #2
29.	Interpole Drop Test 3&4		
	Interpole #3	Interpole #4	Field #2
30.	Interpole Drop Test 5&6		
	Interpole #5	Interpole #6	Field #2
31.	Interpole Drop Test 7&8		
	Interpole #7	Interpole #8	Field #2

32. Armature Number of Bars - Bar to Bar Test

Number of Bars

Bar to Bar Test

57

good

Surge test good



Mechanical Inspection

33. Shaft Runout Drive End

0.001 inches

34. Shaft Runout Armature

Drive End Bearing Journal

Armature Core

ODE Bearing Journal

35. Drive End Bearing Number

6206 2rsr



36. Drive End Bearing Quantity

1

37. Drive End Bearing Type

(Ball) Ball Bearing

38. Drive End Lubrication Type

(Grease) Grease Lubricated

39. Drive End Bearing Insulation or Grounding Device?

40. Drive End Wavy Washer/Snap-Ring Other Retention Device?

41. Drive End Bearing Condition

worn

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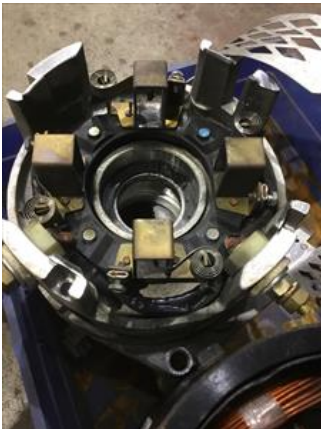



43. Opposite Drive End Bearing Quantity	1
44. Opposite Drive End Bearing Type	(Ball) Ball Bearing
45. Opposite Drive End Lubrication Type	(Grease) Grease Lubricated
46. Opposite Drive End Bearing Insulation or Grounding Device?	
47. Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?	
48. Opposite Drive End Bearing Condition	
49. Signature of Technician who Performed Teardown	Trevor Hall
	
50. List Parts Needed Prior to Reassembly	
<i>4 brushes</i> <i>6305 2rsr</i> <i>6206 2rsr</i>	
Mechanical Fits - Armature	
51. Coupling Fit Closest to Bearing Housing	
0 Degrees	60 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
1.1814	1.1814
	1.1814
54. Drive End Bearing Shaft Fit Condition	(P) Pass
55. Opposite Drive End Bearing Shaft Fit	
0 Degrees	60 Degrees
	120 Degrees
0.9846	0.9846
	0.9846
56. Opposite Drive End Bearing Shaft Fit Condition	(P) Pass
57. Shaft Air Seal Fits	
Drive End Air Seal	Opposite Drive End Air Seal
Mechanical Fits- Bearing Housings	

58. Drive End - End Bell Bearing Fit		
0 Degrees	60 Degrees	120 Degrees
2.4413	2.4413	2.4413



59. Drive End - Endbell Bearing Fit Condition	(P) Pass	
60. Opposite Drive End - End Bell Bearing Fit		
0 Degrees	60 Degrees	120 Degrees
2.4413	2.4413	2.4413
61. Opposite Drive End - Endbell Bearing Fit Condition	(P) Pass	



62. Bearing Cap Condition		
Drive End	Opposite Drive End	
63. End Bell Air Seal Fits		
Drive End Air Seal	Opposite Drive End Air Seal	
64. List any Machine work Needed Below		
65. Signature of Technician Performing Measurements	Trevor Hall	
		

Root Cause of Failure

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66.	Failure Locations <i>Brushes, commutator, bearings</i>		
67.	Root Cause of Failure <i>Brushes got stuck in brush rack and didn't make proper contact.</i>		
Commutator Data			
68.	Total Copper Segment Length		
69.	Number of Bars		
70.	Number of Wires Per Copper Bar and Size		
	Number of Wires per Bar	Wire Size	
71.	Equalizers per Copper Bar and Equalizer Wire Size		
	Equalizers per Bar	Wire Size	
72.	Document Commutator Diameter, Minimum and Max		
	Current Comm Diameter	Minimum Comm Diameter	Maximum Comm Diameter
73.	Commutator Shaft Diameter		
	Front Shaft Diameter	Back Shaft Diameter	
74.	Commutator Type		
75.	Commutator Bore		
76.	Signature of Technician Recording Data		
Dynamic Balance Report			
77.	Rotor Weight and Balance Grade		
	Rotor Weight	Balance Grade	
78.	Initial Balance Readings		
	Drive End Readings	Opposite Drive End Readings	
79.	Final Balance Readings		
	Drive End Readings	Opposite Drive End Readings	
80.	Signature of the Balance Technician		
Post Armature Rewind Testing			
81.	Post Rewind Armature Insulation Resistance to Ground		
82.	Post Rewind Field Circuit Measure the Insulation Resistance to Ground		
83.	Post Rewind Armature Number of Bars - Bar to Bar Test		
	Number of Bars	Bar to Bar Test	
84.	Post Rewind Field Circuit Insulation Resistance to Ground		
85.	Post Rewind Interpole Circuit Insulation Resistance to Ground		
86.	Post Rewind Field Drop Test Fields 1&2		
	Total AC Voltage	Field #1	Field #2
87.	Post Rewind Field Drop Test Fields 3&4		
	Field #3	Field #4	Field #2

88. Post Rewind Field Drop Test Fields 5&6		
Field #5	Field #6	Field #2
89. Post Rewind Field Drop Test Fields 7&8		
Field #7	Field #8	Field #2
90. Post Rewind Interpole Drop Test 1&2		
Total AC Voltage	Interpole #1	Interpole #2
91. Post Rewind Interpole Drop Test 3&4		
Interpole #3	Interpole #4	Field #2
92. Post Rewind Interpole Drop Test 5&6		
Interpole #5	Interpole #6	Field #2
93. Post Rewind Interpole Drop Test 7&8		
Interpole #7	Interpole #8	Field #2
Post Mechanical Repair		
94. Post Repair Coupling Fit Closest to Bearing Housing		
0 Degrees	60 degrees	120 degrees
95. Post Repair Coupling Fit Closest to the End of the Shaft		
0 Degrees	60 degrees	120 degrees
96. Post Repair Drive End Bearing Shaft Fit		
0 Degrees	60 Degrees	120 Degrees
97. Post Repair Drive End Bearing Shaft Fit Condition		
98. Post Repair Drive End Opposite Drive End Bearing Shaft Fit		
0 Degrees	60 Degrees	120 Degrees
99. Post Repair Drive End Opposite Drive End Bearing Shaft Fit Condition		
100. Post Repair Drive End - End Bell Bearing Fit		
0 Degrees	60 Degrees	120 Degrees
101. Post Repair Drive End - Endbell Bearing Fit Condition		
102. Post Repair Opposite Drive End - End Bell Bearing Fit		
0 Degrees	60 Degrees	120 Degrees
103. Post Repair Opposite Drive End - Endbell Bearing Fit Condition		
104. Post Repair Bearing Cap Condition		
Drive End	Opposite Drive End	
105. Post Repair End Bell Air Seal Fits		
Drive End Air Seal	Opposite Drive End Air Seal	
106. Signature of Tech Performing Mechanical Repairs		
Assembly		

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107. Take Pictures of all Major Components Prior to Reassembly			
108. Verify Brush Box Holders Have the Proper Clearance, and Brushes have been Seated Properly			
109. Assembled Shaft End Play and Runout			
Shaft Endplay	Shaft Runout		
110. Perform No-Load Test Run, Record Armature Voltage and Current			
Voltage	Current		
111. Perform No-Load Test Run, Record Field Voltage and Current			
Voltage	Current		
112. Document Vibration Readings Drive End			
Horizontal	Vertical	Axial	
113. Document Vibration Readings Opposite Drive End			
Horizontal	Vertical	Axial	
114. Perform Full-Load Test Run, Record Armature Voltage and Current			
Voltage	Current		
115. Perform Full-Load Test Run, Record Field Voltage and Current			
Voltage	Current		
116. Document Vibration Readings Under Full Load Drive End			
Horizontal	Vertical	Axial	
117. Document Vibration Readings Under Full Load Opposite Drive End			
Horizontal	Vertical	Axial	
118. Ambient Temperature			
119. Drive End Bearing Temps Under Full Load			
5 Minutes	10 Minutes	15 Minutes	
120. Opposite Drive End Bearing Temps Under Full Load			
5 Minutes	10 Minutes	15 Minutes	
121. Final Test Run Sign-Off			
122. Document Final Condition With Pictures			
123. Final QC Sign-Off			



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.
7. **INSPECTION/ACCEPTANCE.** All goods and services ordered pursuant to any quotation shall be subject to inspection by Buyer after delivery or performance to determine conformity with the quotation and/or purchase order and Hi-Speed's advertised or published specifications. Buyer shall have a period of thirty (30) days from shipment of goods at the delivery destination specified in the quotation within which to inspect the goods for conformity with the quotation, order and/or Hi-Speed's advertised and published specifications and to provide Hi-Speed with written notice of any discrepancy or rejection. Buyer shall have a period of thirty (30) days following completion of any services within which to inspect the services for conformity with the quotation, purchase order and/or Hi-Speed's advertised and published specifications and to provide Hi-Speed with written notice of any discrepancy or rejection. If the goods delivered or services performed do not so conform, upon delivery of notice to Hi-Speed of any discrepancy, nonconformance or rejection, Hi-Speed shall have sixty (60) days to cure the alleged discrepancy and/or nonconformance. If Hi-Speed fails to cure in this time period, Buyer shall have the right to reject such goods or services. After the cure period, goods that have been delivered and rejected, in whole or in part, shall be returned to Hi-Speed. Buyer shall notify Hi-Speed and arrange for the return of the goods as required. Should such non-conforming services be rejected Hi-Speed shall, at its sole cost, re-perform the non-conforming services. Inspection or failure to inspect on any occasion shall not affect Buyer's rights under the warranty provisions herein.
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

replace any defective or non-conforming goods in accordance with the applicable manufacturer's warranty. Warranty for any defective or incorrect parts is limited to the repair or replacement of those parts. Hi-Speed warrants that all services will conform in all material respects to the description of services identified in the quotation and will be performed in a good and workmanlike manner in accordance with industry practices and standards. Should the services be reasonably rejected or not conform with the foregoing warranties, Hi-Speed shall, at its sole cost, re-perform the defective or nonconforming services. Notwithstanding the foregoing, these warranties do not extend to goods or services to the extent that such goods have been subject to misuse, neglect or abuse not caused by Hi-Speed or have been used in violation of the approved written instructions furnished to Buyer. THE FOREGOING REPRESENTS THE SOLE AND EXCLUSIVE WARRANTY GIVEN BY HI-SPEED WITH RESPECT TO ALL GOODS SOLD AND IS IN LIEU OF ALL OTHER WARRANTIES EITHER EXPRESS OR IMPLIED. HI-SPEED EXPRESSLY DISCLAIMS ALL OTHER WARRANTIES INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR USE OR PURPOSE. BUYER WAIVES ANY CLAIM THAT THESE EXCLUSIONS OR LIMITATIONS DEPRIVE IT OF AN ADEQUATE REMEDY AT EQUITY OR LAW OR CAUSE THIS AGREEMENT TO FAIL IN ITS ESSENTIAL PURPOSE. BUYER SHALL BE ENTITLED TO NO OTHER REMEDY OTHER THAN AS SET FORTH HEREIN, REGARDLESS OF THE CLAIM OR CAUSE OF ACTION, WHETHER BASED IN CONTRACT, TORT, NEGLIGENCE, GOODS LIABILITY, STRICT LIABILITY OR OTHERWISE.

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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.
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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.
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