



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

LR Motor Shop Repairs

**Job Number 104785**

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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**DC Repair Report**  
**Union Pacific-Vine St 10945**  
1020 N. Vine Street  
North Little Rock, AR

FolderID: 104785  
FormID: 24885841

**DC Repair Report Rev. 2**

**Location:** LR MOTOR SHOP

**Job Number:** 104785

**Serial Number:** 35C13-11

**Description:** TORQUE MOTOR  
INLAND MOTORS

**Hi-Speed Job Number:** 104785

**Manufacturer:** Other

**Serial Number:** 35C13-11

**Armature Voltage:** 17 (Volts)

**Armature Current:** 16 (Amps)

**Field Voltage:** 54 (Volts)

**Field Current :** 72 (Amps)

**J-Box Included:** Yes

**Bearing RTDS:** No

**Winding RTDS:** No

**Mounting Orientation :** D-Face

Priorities Found: ● **2 - High** ● **7 - Good**

**Overall Condition**

1. Describe the Overall Condition of the Equipment as Received

*Serviceable*







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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

Flush



### Initial Mechanical/Electrical

4.	Does the Shaft Turn Freely?	(N) No
	Brake engaged	
5.	Does Shaft Have Visible Damage?	(No) No
6.	Assembled Shaft Runout	Inches
7.	Assembled Shaft End Play	Inches

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8.	Air Gap Variation <10%	
● 9.	Lead Condition	(P) Pass
10.	Lead Length	5 Inches
● 11.	Frame Condition	(P) Pass
● 12.	Fan Condition	(NA) Not Applicable
13.	Brush Information	
	Brush Number	Quantity
		6
		Condition
		oily



14. Brush Holder Condition - Verify proper gap to Commutator



Incoming Electrical Test

15. General Condition of the Armature/Commutator

needs polishing



16. Armature Insulation Resistance to Ground

1,330 Megohms



17. Field Circuit Insulation Resistance to Ground

Megohms

18. Interpole Circuit Insulation Resistance to Ground

Megohms

19. Total Field Ohms

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

25. Field Drop Test Fields 3&4

Field #3

Field #4

Field #2

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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
Na		
32. Armature Number of Bars - Bar to Bar Test		
Number of Bars	Bar to Bar Test	
Pass		



Mechanical Inspection			
33. Shaft Runout Drive End			0 inches
34. Shaft Runout Armature			
Drive End Bearing Journal	Armature Core	ODE Bearing Journal	

35. Drive End Bearing Number

6207 2RS

Normal wear



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?	(NA)
40. Drive End Wavy Washer/Snap-Ring Other Retention Device?	snap ring
41. Drive End Bearing Condition	normal wear
42. Opposite Drive End Bearing Number	6206 2RS



Frosting

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?	(NA)
47. Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?	wavy washer
48. Opposite Drive End Bearing Condition	frosting
49. Signature of Technician who Performed Teardown	RW

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50. List Parts Needed Prior to Reassembly  
*6 brushes 3 brush caps 1-6207 2RS 1-6206 2RS*

### Mechanical Fits - Armature

51. Coupling Fit Closest to Bearing Housing

0 Degrees	60 degrees	120 degrees
1.375	1.375	1.375

52. Coupling Fit Closest to the End of the Shaft

0 Degrees	60 degrees	120 degrees
1.375	1.375	1.375



53. Drive End Bearing Shaft Fit

0 Degrees	60 Degrees	120 Degrees
1.3779	1.3779	1.3779

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



55. Opposite Drive End Bearing Shaft Fit

0 Degrees	60 Degrees	120 Degrees
1.1804	1.1804	1.1804

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

57. Shaft Air Seal Fits

Drive End Air Seal

Opposite Drive End Air Seal

Na



**Mechanical Fits- Bearing Housings**

58. Drive End - End Bell Bearing Fit

0 Degrees

60 Degrees

120 Degrees

2.8363

2.8363

2.8363



59. Drive End - Endbell Bearing Fit Condition

**(F) Fail**

60. Opposite Drive End - End Bell Bearing Fit

0 Degrees

60 Degrees

120 Degrees

2.4415

2.4415

2.4415



62. Bearing Cap Condition

Drive End

Opposite Drive End

Na

63. End Bell Air Seal Fits

Drive End Air Seal

Opposite Drive End Air Seal

Na

64. List any Machine work Needed Below

DE END BELL BEARING FIT

65. Signature of Technician Performing Measurements

RW

Co sign TRH

**Root Cause of Failure**

66. Failure Locations

Comm. Bearings brake

67. Root Cause of Failure

Missing brushes and caps de end bell bearing fit bad ode shaft bearing fit bad brake pad full of oil comm caked up wit oil and carbon

**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		
<b>Dynamic Balance Report</b>		
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		
<b>Post Armature Rewind Testing</b>		
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**

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		



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