



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

LR Motor Shop Repairs

**Job Number 103724**

Prepared for Union Pacific-Vine St 10945

1020 N. Vine Street  
North Little Rock AR

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

**AC Inspection as Found**  
**Union Pacific-Vine St 10945**  
1020 N. Vine Street  
North Little Rock, AR

FolderID: 103724  
FormID: 22178641

**AC Inspection - Rev. 2**

**Location:** Shop  
**Serial Number:** 93060019  
**Description:** 0.4KW MATSUSHITA ELECTRIC

<b>Hi-Speed Job Number:</b>	103724
<b>Product Number:</b>	M: EM-BX18
<b>Spec/ID #:</b>	NA
<b>Serial Number:</b>	93060019
<b>HP/kW:</b>	0.4 (kW)
<b>RPM:</b>	1670 (RPM)
<b>Frame:</b>	NA
<b>Voltage:</b>	230 / 460
<b>Current:</b>	2.4-1.2 (Amps)
<b>Phase:</b>	Three
<b>Hz:</b>	60 (Hz)
<b>Enclosure:</b>	TENV
<b># of Leads:</b>	9
<b>J-box Included:</b>	Complete
<b>Coupling/Sheave:</b>	None
<b>Date Received:</b>	11/05/2024
<b>Bearing RTDs:</b>	No
<b>Stator RTDs:</b>	No
<b>Repair Stage:</b>	Final
<b>Rewind:</b>	Yes
<b>Shaft Machined Fit Repairs Required:</b>	No
<b>Bearing Housing Machined Fit Repairs Required:</b>	No
<b>Heaters:</b>	No
<b>Winding Type :</b>	Random Wound
<b>Bearing Type:</b>	Rolling Element

Priorities Found: **2 - High** **8 - Good**

**Overall Condition**

1. Report Date

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## 2. Nameplate Picture



## 3. Photos of all six sides of the machine.



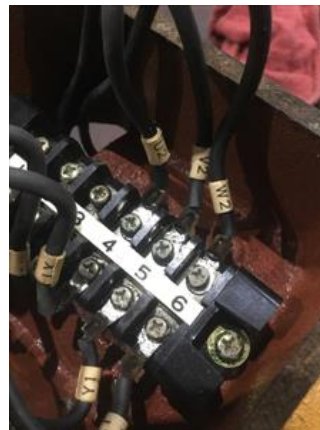


4. Describe the Overall Condition of the Equipment as Received  
*Half disassembled*



### Initial Mechanical/Electrical

5. Does Shaft Turn Freely?	(NA) Not Applicable
6. Does the shaft require T.I.R in Lathe to identify additional repairs?	(No) No
7. Does Shaft Have Visible Damage?	(No) No
8. Assembled Shaft Runout	Inches
9. Assembled Shaft End Play	inches
10. Air Gap Variation <10%	
11. Lead Condition	(NA) Not Applicable
Rewind	
12. Lead Length	8 Inches
13. Does it have Lugs?, If so what is the Stud Size?	
Yes	
14. Lead Numbers	
U1-V1-W1-X1-Y1-Z1-U2-V2-W2	



15. Frame Condition	
16. Fan Condition	(N) NA
17. Broken or Missing Components	
1 J-box cover screw	

### Initial Electrical Inspection

18. Insulation Resistance/Megger	Megohms
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19. Winding Resistance		
1-2	1-3	2-3
20. Perform Surge Test		(NA) Not Applicable
Single phased		
21. Number of Stator Slots		
22. Stator Condition		
23. Stator Thermistors/Ohms		
24. Stator Overloads/Ohms		
<b>Mechanical Inspection</b>		
25. Drive End Bearing Brand		KOYO
26. Drive End Bearing Number-		6204



27. Drive End Bearing Qty.		1
28. Drive End Bearing Type		(Ball) Ball Bearing
29. Drive End Lubrication Type		(Grease) Grease Lubricated
30. Drive End Bearing Insulation or Grounding Device?		
31. Drive End Wavy Washer/Snap-Ring Other Retention Device?		
32. Drive End Bearing Condition		
Wear		



33. Opposite Drive End Bearing Brand		KOYO
34. Opposite Drive End Bearing Number-		6202

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35. Opposite Drive End Bearing Qty.	1
36. Opposite Drive End Bearing Type	(Ball) Ball Bearing
37. Opposite Drive End Lubrication Type	(Grease) Grease Lubricated
38. Opposite Drive End Bearing Insulation or Grounding Device?	
39. Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?	
40. Opposite Drive End Bearing Condition	
Wear	



41. Drive End Seal	
42. Opposite Drive End Seal	
<b>Rotor Inspection</b>	
43. Rotor Type/Material	(Squirrel Aluminum) Squirrel Cage Aluminum Die Cast
44. Growler Test	(Pass) Pass
45. Number of Rotor Bars	44
46. Rotor Condition	
47. List the Parts needed for the Repair Below	
6204-2RS 6202-2RS 9 lugs	



48. Signature of Technician that Disassembled Motor

CW


**Mechanical Fits- Rotor**

49. Shaft Runout inches

50. Rotor Runout

Drive End Bearing Fit

Rotor Body

Opposite Drive End Bearing

51. Coupling Fit Closest to Bearing Housing

0 Degrees

90 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

0.7866

0.7866

0.7867

54. Drive End Bearing Shaft Fit Condition

(P) Pass

55. Opposite Drive End Bearing Shaft Fit

0 Degrees

60 Degrees

120 Degrees

0.59

0.5901

0.5901999999999999

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 - Endbell Bearing Fit

0 Degrees

60 Degrees

120 Degrees

1.8513

1.8514

1.8514

59. Drive End - Endbell Bearing Fit Condition

(P) Pass

60. Opposite Drive End - Endbell Bearing Fit

0 Degrees

60 Degrees

120 Degrees

1.3792

1.379

1.379

61. Opposite Drive End - Endbell Bearing Fit Condition

(P) Pass

62. Bearing Cap Condition

Drive End Bearing Cap

Opposite Drive End Bearing Cap

63. End Bell Air Seal Fits

Drive End Air Seal

Opposite Drive End Air Seal

64. List Machine Work Needed Below

65. Technician

Cw


 Co sign: DM
**Root Cause of Failure**

66. Failure locations

*Windings, bearings*

67. Root cause of failure

*Single phased and wear***Dynamic Balance Report**

68. Rotor Weight and Balance Grade

Rotor Weight

Balance Grade

69. Initial Balance Readings

Drive End

Opposite Drive End

70. Final Balance Readings

Drive End

Opposite Drive End

71. Technician

**Rewind**

72. Core Test Results - Watts loss per Pound

Pre-Burnout

Post Burnout

73. Core Hot Spot Test

Pre-Burnout

Post-Burnout

74. Post Rewind Electrical Test- Insulation Resistance

**Megohms**

75. Post Rewind Polarization Index

**Polarization Index**

76. Post Rewind Winding Resistance

1-2

1-3

2-3

77. Post Rewind Surge Test

78. Post Rewind Hi-Pot

**micro-amps**

79. Technician

**Assembly**

80. QC Check All Parts for Cleanliness Prior to Assembly

Cw



81. Photograph All Major Components prior to assembly



82. Final Insulation Resistance Test	Megohms
83. Assembled Shaft Endplay	inches
84. Assembled Shaft Runout	inches
85. Test Run Voltage	
Volts	Volts



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## 86. Test Run Amperage

Amps

Amps

Amps

Witnessed by: RRW



## 87. Drive End Vibration Readings - Inches Per Second

Horizontal

Vertical

Axial

## 88. Opposite Drive End Vibration Readings - Inches Per Second

Horizontal

Vertical

Axial

## 89. Ambient Temperature - Fahrenheit

## 90. Drive End Bearing Temps - Fahrenheit

5 Minutes

10 Minutes

15 Minutes

## 91. Opposite Drive End Bearing Temps - Fahrenheit

5 Minutes

10 Minutes

15 Minutes

## 92. Document Final Condition with Pictures after paint



## 93. Final Pics and QC Review

Cw

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

## AC Random Coil Rewind Report

FolderID: 103724  
FormID: 22180676

Union Pacific-Vine St 10945

1020 N. Vine Street  
North Little Rock, AR

Shop  
Winding

Priorities Found: ● 1 - High ● 1 - Good

### General

1. Job Number	103724
2. Report Date	11/05/2024
3. Customer	Union Pacific

### Stator Winding

4. Core Length	1.8125 "
<span style="color: gray;">■</span> 1.125 head both sides	
5. Core ID	3.125 "
6. Back Iron Depth	0.3125 "
7. Slot Depth	0.625 "
8. Tooth Width	0.1875 "
9. Number of Vents	0
10. Vent Width	"
11. Before Burnout Core loss	
12. Flux Before Burnout	
13. Watts before burnout	
14. Watts loss per lb. before burnout	
15. After Burnout Core Loss	
16. Flux After burnout	
17. Watts After Burnout	
18. Watts loss per lb After Burnout	
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	18
30. Coil Weight	
31. Lead Markings	
1-9	

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32. Grouping	
6g 1c	
6g 2c	
33. Multiple Wires	(N) No
34. Wire Size	
25	
35. Turns per coil	117
36. Pitch 1 to:	
1-8	
1-8,10	
37. Connection	
1 Wye	
38. Lead Length	6 "
39. Lead Size	
40. Number of Leads	9
41. Megger Reading After Rewind	7551 Mohms
42. Coil Machine Slot	
43. Coil Machine Tip	
44. Coil Machine Pitch	
45. Hi Pot Reading After Rewind	0.099 Ua
46. Surge Pattern After Rewind	(P) Pass
47. Service Technician	
	



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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.
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