



**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

# Table of Contents

AC Inspection as Found - <i>Shop</i>	AC Inspection - Rev. 2: 93060019	1.0
AC Random Coil Rewind Report - <i>Shop</i>		2.0



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

Hi-Speed Job Number: 103724

Product Number: M: EM-BX18

Spec/ID #: NA

Serial Number: 93060019

HP/kW: 0.4 (kW)

RPM: 1670 (RPM)

Frame: NA

Voltage: 230 / 460

Current: 2.4-1.2 (Amps)

Phase: Three

Hz: 60 (Hz)

Enclosure: TENV

# of Leads: 9

J-box Included: Complete

Coupling/Sheave: None

Date Received: 11/05/2024

Bearing RTDs: No

Stator RTDs: No

Repair Stage: Final

Rewind: Yes

Shaft Machined Fit Repairs  
Required: No

Bearing Housing Machined  
Fit Repairs Required: Yes

Heaters: No

Winding Type : Random Wound

Bearing Type: Rolling Element

Priorities Found: 2 - High 8 - Good

### Overall Condition

1. Report Date

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Printed on 11/5/2024

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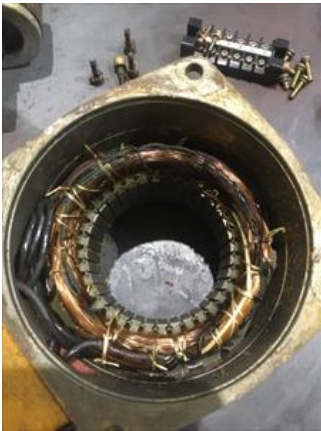
1.0

## 2. Nameplate Picture



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



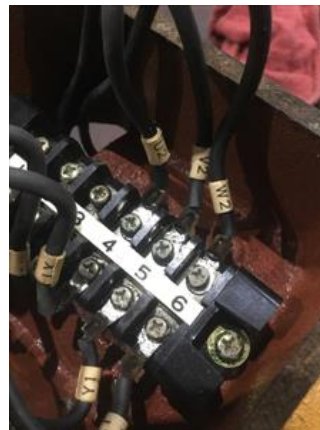


4. Describe the Overall Condition of the Equipment as Received  
*Half disassembled*



### 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	
<b>Initial Electrical Inspection</b>	
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	
Rotor Inspection	
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

75. Post Rewind Polarization Index

76. Post Rewind Winding Resistance

1-2

1-3

2-3

77. Post Rewind Surge Test

78. Post Rewind Hi-Pot

79. Technician

**Mechanical Fits- Bearing Housings - Post Repair**

80. Drive End - Endbell Bearing Fit Post Repair

0 Degrees

60 Degrees

120 Degrees

81. Opposite Drive End - Endbell Bearing Fit Post Repair

0 Degrees

60 Degrees

120 Degrees

82. Bearing Cap Condition Post Repair

Drive End Bearing Cap

Opposite Drive End Bearing Cap

83. End Bell Air Seal Fits Post Repair			
Drive End Air Seal	Opposite Drive End Air Seal		
84. End Bell Repair Sign-off			
<b>Assembly</b>			
85. QC Check All Parts for Cleanliness Prior to Assembly			
86. Photograph All Major Components prior to assembly			
87. Final Insulation Resistance Test			
88. Assembled Shaft Endplay			
89. Assembled Shaft Runout			
90. Test Run Voltage			
Volts	Volts	Volts	
91. Test Run Amperage			
Amps	Amps	Amps	
92. Drive End Vibration Readings - Inches Per Second			
Horizontal	Vertical	Axial	
93. Opposite Drive End Vibration Readings - Inches Per Second			
Horizontal	Vertical	Axial	
94. Ambient Temperature - Fahrenheit			
95. Drive End Bearing Temps - Fahrenheit			
5 Minutes	10 Minutes	15 Minutes	
96. Opposite Drive End Bearing Temps - Fahrenheit			
5 Minutes	10 Minutes	15 Minutes	
97. Document Final Condition with Pictures after paint			
98. Final Pics and QC Review			



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:

General		
1. Job Number		103724
2. Report Date		11/05/2024
3. Customer		Union Pacific
Stator Winding		
4. Core Length		1.8125 "
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	
34. Wire Size	
35. Turns per coil	
36. Pitch 1 to:	
1-8	
1-8,10	
37. Connection	
38. Lead Length	6 "
39. Lead Size	
40. Number of Leads	9
41. Megger Reading After Rewind	
42. Coil Machine Slot	
43. Coil Machine Tip	
44. Coil Machine Pitch	
45. Hi Pot Reading After Rewind	
46. Surge Pattern After Rewind	
47. Service Technician	



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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.
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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.
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