



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

LR Motor Shop Repairs

Job Number 102248

Prepared for Union Pacific-Vine St 10945

1020 N. Vine Street
North Little Rock AR

Table of Contents

AC Inspection as Found - *Shop*

AC Inspection - Rev. 2: 12191072

1.0

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Printed on 12/29/2023

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Millington, Tn 38053
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AC Inspection as Found
Union Pacific-Vine St 10945
1020 N. Vine Street
North Little Rock, AR

FolderID: 102248
FormID: 18793903

AC Inspection - Rev. 2

Location: Shop
Serial Number: 12191072
Description: 5.6/1.4KW CM 3600/900RPM 112M

Hi-Speed Job Number: 102248
Manufacturer: Other
Product Number: BAKDA 112 MC2/8
Spec/ID #: 33327303
Serial Number: 12191072
HP/kW: 5.6 (kW)
RPM: 3600 (RPM)
Frame: 112M
Voltage: 460
Current: 11.05/5.3
Phase: Three
Hz: 60 (Hz)
Enclosure: TEFC
J-box Included: Complete
Coupling/Sheave: None
Bearing RTDs: No
Stator RTDs: No
Repair Stage: Final
Heaters: No
Winding Type : Random Wound
Bearing Type: Rolling Element

Priorities Found: ● 1 - High ● 6 - Good

Overall Condition

1. Report Date
2. Nameplate Picture



3. Photos of all six sides of the machine.

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1.2



4. Describe the Overall Condition of the Equipment as Received

Initial Mechanical/Electrical

5. Does Shaft Turn Freely?	(Yes) Yes
6. Does Shaft Have Visible Damage?	(No) No
7. Assembled Shaft Runout	Inches
8. Assembled Shaft End Play	
9. Air Gap Variation <10%	
10. Lead Condition	(P) Pass
11. Lead Length	9 Inches
12. Lead Numbers	
13. Frame Condition	
14. Fan Condition	(P) Pass



15. Broken or Missing Components

Initial Electrical Inspection

16. Insulation Resistance/Megger			
17. Winding Resistance			
1-2	1-3	2-3	
18. Perform Surge Test			(F) Fail
19. Number of Stator Slots			
20. Stator Condition			
21. Stator Thermistors/Ohms			

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22. Stator Overloads/Ohms

Mechanical Inspection

23. Drive End Bearing Brand

NSK

24. Drive End Bearing Number-

6009 DU



25. Drive End Bearing Qty.

1

26. Drive End Bearing Type

(Ball) Ball Bearing

27. Drive End Lubrication Type

(Grease) Grease Lubricated

28. Drive End Bearing Insulation or Grounding Device?

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

wavy washer

30. Drive End Bearing Condition

replace

31. Opposite Drive End Bearing Brand

NSK

32. Opposite Drive End Bearing Number-

6306 DU



33. Opposite Drive End Bearing Qty.

1

34. Opposite Drive End Bearing Type

(Ball) Ball Bearing

35. Opposite Drive End Lubrication Type

(Grease) Grease Lubricated

36. Opposite Drive End Bearing Insulation or Grounding Device?

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

snap ring in housing

38. Opposite Drive End Bearing Condition

replace

39. Drive End Seal

CR 16046

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40. Opposite Drive End Seal

Rotor Inspection

41. Rotor Type/Material **(Squirrel Aluminum) Squirrel
Cage Aluminum Die Cast**

42. Growler Test **(Pass) Pass**

43. Number of Rotor Bars **28**

44. Rotor Condition **pass**

45. List the Parts needed for the Repair Below

Bearings. Machine housing on ODE. Rewind Stator, and replace DE lip seal.

46. Signature of Technician that Disassembled Motor **Terrence Holland**

Terrence Holland

Mechanical Fits- Rotor

47. Shaft Runout

48. Rotor Runout

Drive End Bearing Fit

Rotor Body

Opposite Drive End Bearing

49. Coupling Fit Closest to Bearing Housing

0 Degrees

90 Degrees

120 Degrees

50. Coupling Fit Closest to the end of the Shaft

0 Degrees

60 Degrees

120 Degrees

51. Drive End Bearing Shaft Fit

0 Degrees

60 Degrees

120 Degrees

1.6247

1.6247

1.6247

52. Drive End Bearing Shaft Fit Condition **(P) Pass**

53. Opposite Drive End Bearing Shaft Fit

0 Degrees

60 Degrees

120 Degrees

1.1817

1.1816

1.1816

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

55.	Shaft Air Seal Fits	
	Drive End Air Seal	Opposite Drive End Air Seal
Mechanical Fits- Bearing Housings		
56.	Drive End - Endbell Bearing Fit	
	0 Degrees	60 Degrees 120 Degrees
57.	Drive End - Endbell Bearing Fit Condition	
58.	Opposite Drive End - Endbell Bearing Fit	
	0 Degrees	60 Degrees 120 Degrees
59.	Opposite Drive End - Endbell Bearing Fit Condition	
60.	Bearing Cap Condition	
	Drive End Bearing Cap	Opposite Drive End Bearing Cap
61.	End Bell Air Seal Fits	
	Drive End Air Seal	Opposite Drive End Air Seal
62.	List Machine Work Needed Below <i>ODE housing fit.</i>	
63.	Technician	T Holland
Root Cause of Failure		
64.	Failure locations <i>Short</i>	
65.	Root cause of failure <i>Short on coil head.</i>	



Dynamic Balance Report		
66. Rotor Weight and Balance Grade		
Rotor Weight	Balance Grade	
0	0	
67. Initial Balance Readings		
Drive End	Opposite Drive End	
.25	.19	

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68. Final Balance Readings		
Drive End	Opposite Drive End	
.25	.19	
69. Technician David Maclin		
		
Rewind		
70. Core Test Results - Watts loss per Pound		
Pre-Burnout	Post Burnout	
71. Core Hot Spot Test		
Pre-Burnout	Post-Burnout	
72. Post Rewind Electrical Test- Insulation Resistance		
73. Post Rewind Polarization Index		
74. Post Rewind Winding Resistance		
1-2	1-3	2-3
75. Post Rewind Surge Test		
76. Post Rewind Hi-Pot		
77. Technician		
Mechanical Fits- Rotor - Post Repair		
78. Shaft Runout Post Repair		0 inches
79. Rotor Runout Post Repair		
Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing
0		
80. Coupling Fit Closest to Bearing Housing Post Repair		
0 Degrees	90 Degrees	120 Degrees
0		
81. Coupling Fit Closest to the end of the Shaft Post Repair		
0 Degrees	60 Degrees	120 Degrees
0		
82. Drive End Bearing Shaft Fit Post Repair		
0 Degrees	60 Degrees	120 Degrees
0		
83. Opposite Drive End Bearing Shaft Fit Post Repair		
0 Degrees	60 Degrees	120 Degrees
0		
84. Shaft Air Seal Fits Post Repair		
Drive End Air Seal	Opposite Drive End Air Seal	
ok	ok	

85. Shaft Repair Sign-off

David Maclin



Mechanical Fits- Bearing Housings - Post Repair

86. Drive End - Endbell Bearing Fit Post Repair

0 Degrees

60 Degrees

120 Degrees

0

87. Opposite Drive End - Endbell Bearing Fit Post Repair

0 Degrees

60 Degrees

120 Degrees

2.8348

2.8348

2.8348



88. Bearing Cap Condition Post Repair

Drive End Bearing Cap

Opposite Drive End Bearing Cap

na

na

89. End Bell Air Seal Fits Post Repair

Drive End Air Seal

Opposite Drive End Air Seal

ok

ok

90. End Bell Repair Sign-off

Gary



Assembly

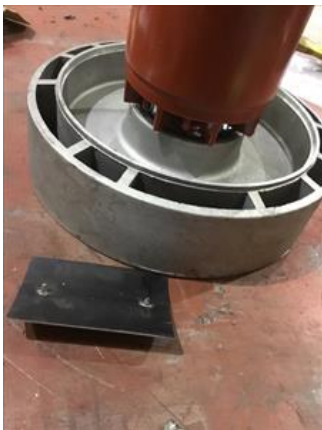
91. QC Check All Parts for Cleanliness Prior to Assembly

David Maclin



92. Photograph All Major Components prior to assembly

(Complete) Complete



93. Final Insulation Resistance Test

2000 Megohms

94. Assembled Shaft Endplay

0 inches



95. Assembled Shaft Runout

0 inches

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96. Test Run Voltage

Volts

459

Volts

458

Volts

460



97. Test Run Amperage

Amps

8.300000000000001

Amps

8.699999999999999

Amps

8.6

98. Drive End Vibration Readings - Inches Per Second

Horizontal

0.0455

Vertical

0.021

Axial

0.0018

99. Opposite Drive End Vibration Readings - Inches Per Second

Horizontal

0.0358

Vertical

0.0225

Axial

0.002

100. Ambient Temperature - Fahrenheit

0

101. Drive End Bearing Temps - Fahrenheit

5 Minutes

0

10 Minutes

15 Minutes

102. Opposite Drive End Bearing Temps - Fahrenheit

5 Minutes

0

10 Minutes

15 Minutes

103. Document Final Condition with Pictures after paint





104. Final Pics and QC Review

David Maclin

A handwritten signature in black ink, consisting of a series of loops and curves, positioned below the text "David Maclin".



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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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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.
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