



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

LR Motor Shop Repairs

Job Number 101845

Prepared for Ring Container Technologies (11634)

9000 Frazier Pike
Little Rock AR 72206

Table of Contents

AC Inspection as Found - *LR MOTOR SHOP*

AC Inspection - Rev. 2

1.0

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

AC Inspection as Found
Ring Container Technologies (11634)
9000 Frazier Pike
Little Rock, AR 72206

FolderID: 101845
FormID: 17860530

AC Inspection - Rev. 2

Location: LR MOTOR SHOP

Serial Number:

Description: MOTOR AND BLOWER ASSY

Hi-Speed Job Number: 101845

Manufacturer: Other

HP/kW: 10 (HP)

RPM: 3530 (RPM)

Frame: 132SB

Voltage: 460

Current: 13.5

Phase: Three

Hz: 60 (Hz)

Enclosure: TEFC

J-box Included: Complete

Date Received: 09/13/2023

Repair Stage: Final

Priorities Found: ● 12 - High ● 5 - Good

Overall Condition

1. Report Date
2. Nameplate Picture



3. Photos of all six sides of the machine.

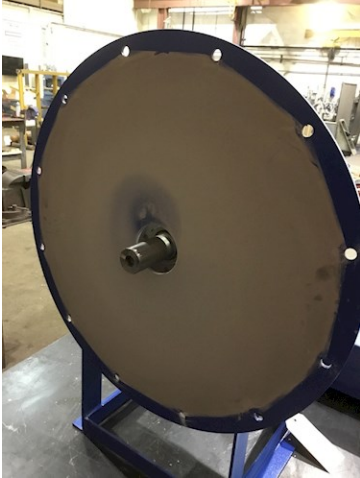
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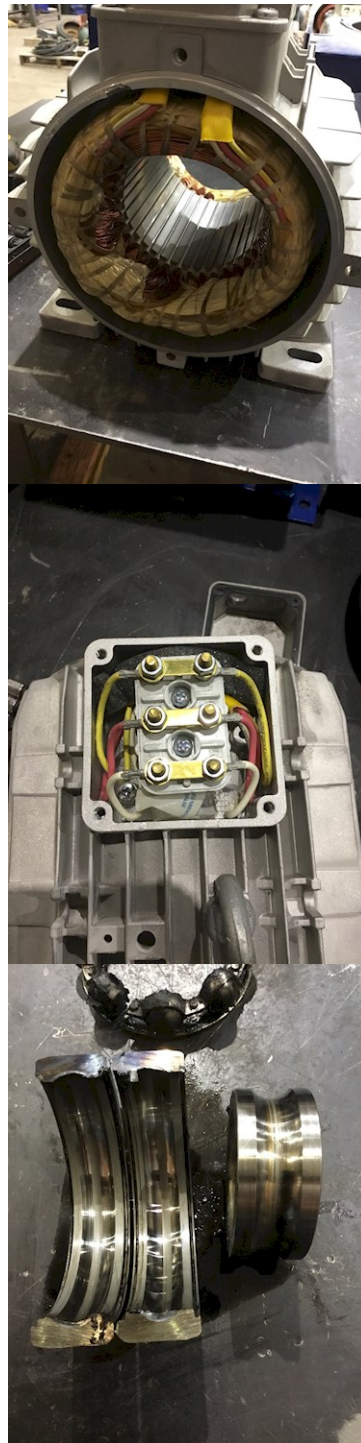
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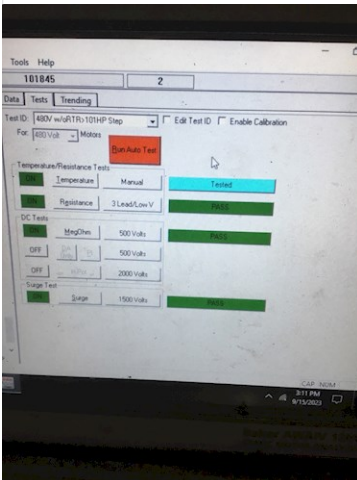
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4. Describe the Overall Condition of the Equipment as Received		
<i>Dirty</i>		
5. Distance from the end of the shaft to the Coupling/Sheave		
Initial Mechanical/Electrical		
6. Does Shaft Turn Freely?	(Yes) Yes	
7. Does Shaft Have Visible Damage?	(No) No	
8. Assembled Shaft Runout		
9. Assembled Shaft End Play		
10. Air Gap Variation <10%		
11. Lead Condition	(P) Pass	
12. Lead Length	6 Inches	
13. Lead Numbers		
14. Stator Temperature Detector Rating and Function		
Quantity	Rating	Quantity Passed
15. Bearing Temperature Detector Rating and Function		
Quantity	Rating	Quantity Passed
16. Frame Condition	pass	
17. Fan Condition	(P) Pass	
18. Heater Quantity, Ratings		
Quantity	Volts/Watts	Pass/Fail
19. Broken or Missing Components	na	
Initial Electrical Inspection		
20. Insulation Resistance/Megger		
21. Winding Resistance		
1-2	1-3	2-3

22. Perform Surge Test


(P) Pass



23. Number of Stator Slots
24. Stator Condition
25. Stator Thermistors/Ohms
26. Stator Overloads/Ohms

Mechanical Inspection

27. Drive End Bearing Brand
28. Drive End Bearing Number- 6308
29. Drive End Bearing Qty. 1
30. Drive End Bearing Type (Ball) Ball Bearing
31. Drive End Lubrication Type (Grease) Grease Lubricated
32. Drive End Bearing Insulation or Grounding Device? na
33. Drive End Wavy Washer/Snap-Ring Other Retention Device? wavy washer
34. Drive End Bearing Condition signs of frosting
35. Opposite Drive End Bearing Brand
36. Opposite Drive End Bearing Number- 6308
37. Opposite Drive End Bearing Qty. 1
38. Opposite Drive End Bearing Type (Ball) Ball Bearing
39. Opposite Drive End Lubrication Type (Grease) Grease Lubricated
40. Opposite Drive End Bearing Insulation or Grounding Device? na
41. Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device? na
42. Opposite Drive End Bearing Condition signs of frosting
43. Drive End Seal 40-55-7
Fail
44. Opposite Drive End Seal 40-55-7
Fail
45. DE Sleeve Bearing Inside Diameter
0 degrees 120 degrees 240 degrees
46. DE Sleeve Bearing Outside Diameter
0 degrees 120 degrees 240 degrees

47. DE Sleeve Bearing Housing Inside Diameter	0 degrees	120 degrees	240 degrees
48. DE Sleeve Bearing to Housing Clearance	0 degrees	120 degrees	240 degrees
49. ODE Sleeve Bearing Inside Diameter	0 degrees	120 degrees	240 degrees
50. ODE Sleeve Bearing Outside Diameter	0 degrees	120 degrees	240 degrees
51. ODE Sleeve Bearing Housing Inside Diameter	0 degrees	120 degrees	240 degrees
52. ODE Sleeve Bearing to Housing Clearance	0 degrees	120 degrees	240 degrees
Rotor Inspection			
53. Rotor Type/Material	(Squirrel Aluminum) Squirrel Cage Aluminum Die Cast		
54. Growler Test	(Pass) Pass		
55. Number of Rotor Bars			
56. Rotor Condition			
57. List the Parts needed for the Repair Below			
<i>Aegis ring-1.7584</i> <i>6308x2</i> <i>Seals-40-55-7 x2</i> <i>Bearing sleeve for ODE end bell bearing fit</i>			
58. Signature of Technician that Disassembled Motor	Cw		
			
Mechanical Fits- Rotor			
59. Shaft Runout			
60. Rotor Runout			
Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing	
61. Coupling Fit Closest to Bearing Housing	0 Degrees	90 Degrees	120 Degrees
62. Coupling Fit Closest to the end of the Shaft	0 Degrees	60 Degrees	120 Degrees
63. Drive End Bearing Shaft Fit	0 Degrees	60 Degrees	120 Degrees
	1.5745	1.5746	1.5744
64. Drive End Bearing Shaft Fit Condition	(F) Fail		

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65.	Opposite Drive End Bearing Shaft Fit		
	0 Degrees	60 Degrees	120 Degrees
	1.5747	1.5746	1.5747
66.	Opposite Drive End Bearing Shaft Fit Condition (F) Fail		
67.	Shaft Air Seal Fits		
	Drive End Air Seal	Opposite Drive End Air Seal	
Mechanical Fits- Bearing Housings			
68.	Drive End - Endbell Bearing Fit		
	0 Degrees	60 Degrees	120 Degrees
	3.5437	3.5439	3.5436
69.	Drive End - Endbell Bearing Fit Condition (P) Pass		
70.	Opposite Drive End - Endbell Bearing Fit		
	0 Degrees	60 Degrees	120 Degrees
	3.5447	3.5446	3.5443
71.	Opposite Drive End - Endbell Bearing Fit Condition (F) Fail		
72.	Bearing Cap Condition		
	Drive End Bearing Cap	Opposite Drive End Bearing Cap	
	Na		
73.	End Bell Air Seal Fits		
	Drive End Air Seal	Opposite Drive End Air Seal	
74.	List Machine Work Needed Below		
	Both shaft bearing fits and ODE end bell bearing fit		
75.	Technician Cw		
			
Dynamic Balance Report			
76.	Rotor Weight and Balance Grade		
	Rotor Weight	Balance Grade	

77. Initial Balance Readings

Drive End

Opposite Drive End



Fan balance

78. Final Balance Readings

Drive End

Opposite Drive End



Fan balance

79. Technician

Cw

Rewind

80. Core Test Results - Watts loss per Pound

Pre-Burnout

Post Burnout

81. Core Hot Spot Test

Pre-Burnout

Post-Burnout

82. Post Rewind Electrical Test- Insulation Resistance

83. Post Rewind Polarization Index

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84. Post Rewind Winding Resistance			
1-2	1-3		2-3
85. Post Rewind Surge Test			
86. Post Rewind Hi-Pot			
87. Technician			
Root Cause of Failure			
88. Failure locations <i>Bearings and bearing fits</i>			
89. Root cause of failure <i>Frosting and wear</i>			
Mechanical Fits- Rotor - Post Repair			
90. Shaft Runout Post Repair			
91. Rotor Runout Post Repair			
Drive End Bearing Fit	Rotor Body		Opposite Drive End Bearing
92. Coupling Fit Closest to Bearing Housing Post Repair			
0 Degrees	90 Degrees		120 Degrees
93. Coupling Fit Closest to the end of the Shaft Post Repair			
0 Degrees	60 Degrees		120 Degrees
94. Drive End Bearing Shaft Fit Post Repair			
0 Degrees	60 Degrees		120 Degrees
1.5753	1.5753		1.5753



95. Opposite Drive End Bearing Shaft Fit Post Repair		
0 Degrees	60 Degrees	120 Degrees
1.5753	1.5752	1.5752



96. Shaft Air Seal Fits Post Repair		
Drive End Air Seal	Opposite Drive End Air Seal	

97. Shaft Repair Sign-off	Gary	
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Mechanical Fits- Bearing Housings - Post Repair

98. Drive End - Endbell Bearing Fit Post Repair		
0 Degrees	60 Degrees	120 Degrees
99. Opposite Drive End - Endbell Bearing Fit Post Repair		
0 Degrees	60 Degrees	120 Degrees
3.5433	3.5433	3.5433




100. Bearing Cap Condition Post Repair		
Drive End Bearing Cap	Opposite Drive End Bearing Cap	

101. End Bell Air Seal Fits Post Repair		
Drive End Air Seal	Opposite Drive End Air Seal	

102. DE Sleeve Bearing Inside ID Post Repair		
Measure 1	Measure 2	Measure 3

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103. DE Sleeve Bearing Outside ID Post Repair		
Measure 1	Measure 2	Measure 3
104. DE Sleeve Bearing Inside OD Post Repair		
Measure 1	Measure 2	Measure 3
105. DE Sleeve Bearing Outside OD Post Repair		
Measure 1	Measure 2	Measure 3
106. End Bell Repair Sign-off		Gary
107. ODE Sleeve Bearing Inside ID Post Repair		
Measure 1	Measure 2	Measure 3
108. ODE Sleeve Bearing Outside ID Post Repair		
Measure 1	Measure 2	Measure 3
109. ODE Sleeve Bearing Inside OD Post Repair		
Measure 1	Measure 2	Measure 3
110. ODE Sleeve Bearing Outside OD Post Repair		
Measure 1	Measure 2	Measure 3
Assembly		
111. QC Check All Parts for Cleanliness Prior to Assembly		Cw
		
112. Photograph All Major Components prior to assembly		(Complete) Complete

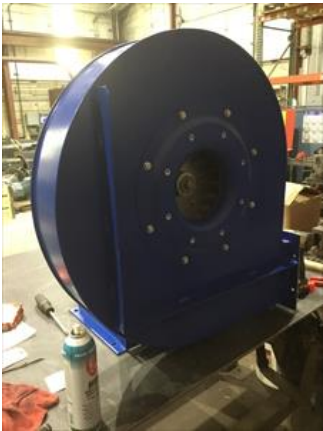
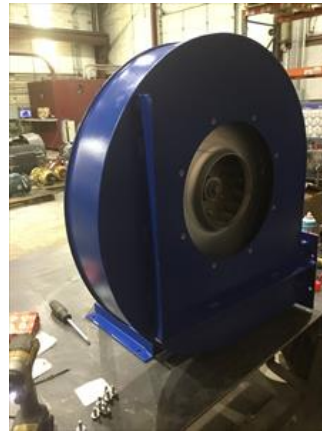
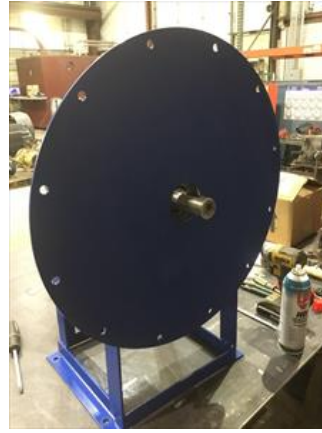




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113. Final Insulation Resistance Test	Megohms	
Na		
114. Assembled Shaft Endplay	inches	
Na		
115. Assembled Shaft Runout	inches	
Na		
116. Test Run Voltage		
Volts	Volts	Volts
460	460	460

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117. Test Run Amperage

Amps	Amps	Amps
4.9	5.3	5.2



118. Drive End Vibration Readings - Inches Per Second

Horizontal	Vertical	Axial
0.002	0.001	0.001

119. Opposite Drive End Vibration Readings - Inches Per Second

Horizontal	Vertical	Axial
0.001	0.001	0.002

120. Ambient Temperature - Fahrenheit

Na

121. Drive End Bearing Temps - Fahrenheit


5 Minutes	10 Minutes	15 Minutes
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Na

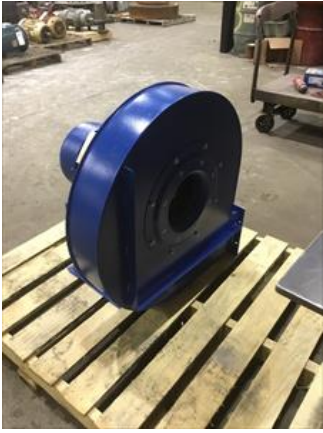
122. Drive End Bearing Temps - Fahrenheit 20-30 Minutes

20 Minutes	25 Minutes	30 Minutes
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Na

123. Drive End Bearing Temps - Fahrenheit 35-45 Minutes		
35 Minutes	40 Minutes	45 Minutes
Na		
124. Drive End Bearing Temps - Fahrenheit 50-60 Minutes		
50 Minutes	55 Minutes	60 Minutes
Na		
125. Opposite Drive End Bearing Temps - Fahrenheit		
5 Minutes	10 Minutes	15 Minutes
Na		
126. Opposite Drive End Bearing Temps - Fahrenheit 20-30 Minutes		
20 Minutes	25 Minutes	30 Minutes
Na		
127. Opposite Drive End Bearing Temps - Fahrenheit 35-45 Minutes		
35 Minutes	40 Minutes	45 Minutes
Na		
128. Opposite Drive End Bearing Temps - Fahrenheit 50-60 Minutes		
50 Minutes	55 Minutes	60 Minutes
Na		
129. Stator Temperatures- Fahrenheit		
5 Minutes	10 Minutes	15 Minutes
Na		
130. Stator Temperatures- Fahrenheit 20-30 Minutes		
20 Minutes	25 Minutes	30 Minutes
Na		
131. Stator Temperatures- Fahrenheit 35-45 Minutes		
35 Minutes	40 Minutes	45 Minutes
Na		
132. Stator Temperatures- Fahrenheit 50-60 Minutes		
50 Minutes	55 Minutes	60 Minutes
Na		
133. Document Final Condition with Pictures after paint		
Na		
134. Final Pics and QC Review		Cw
		
Co sign: DM		

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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.
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.
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.
16. **NO INDIVIDUAL LIABILITY.** Notwithstanding any other agreement to the contrary, the Buyer agrees that in no event will the Buyer hold and Hi-Speed owner, director, officer or employee personally liable for unintentional tortious conduct or conduct that constitutes the breach of any contract between Hi-Speed and the Buyer, even if the Hi-Speed owner, director, officer or employee is or could be construed to be a party to such contract.