



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

LR Motor Shop Repairs

Job Number 102769

Prepared for Miller Spectacular Shows (12776)

79 Mountain Drive
Greenbrier AR 72058

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

AC Inspection as Found
Miller Spectacular Shows (12776)
79 Mountain Drive
Greenbrier, AR 72058

FolderID: 102769
FormID: 20258187

AC Inspection - Rev. 2

Location: LITTLE ROCK MOTOR SHOP

Serial Number:

Description: SUMITIOMO NO N/P

Manufacturer:	Other
Voltage:	230 / 460
Phase:	Three
Enclosure:	TEFC
# of Leads:	9
J-box Included:	Half
Bearing RTDs:	No
Stator RTDs:	No
Repair Stage:	Final
Rewind:	Yes
Shaft Machined Fit Repairs Required:	No
Heaters:	No
Winding Type :	Random Wound
Bearing Type:	Rolling Element

Priorities Found: 1 - High 7 - Good

Overall Condition

- | | |
|----------------------|------------|
| 1. Report Date | 05/02/2024 |
| 2. Nameplate Picture | e |
| No name plate. | |

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1.0

3. Photos of all six sides of the machine.



4. Describe the Overall Condition of the Equipment as Received

Disassembled by customer, and DE housing broken

5. Distance from the end of the shaft to the Coupling/Sheave

inches

Na

Initial Mechanical/Electrical

6. Does Shaft Turn Freely?

(NA) Not Applicable

7. Does the shaft require T.I.R in Lathe to identify additional repairs?

(No) No

8. Does Shaft Have Visible Damage?



(No) No

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1.1

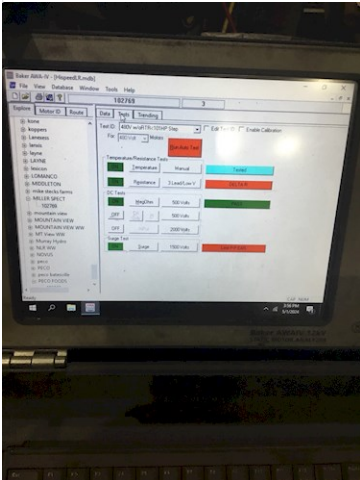
9.	Assembled Shaft Runout	Inches
🗨	Na	
10.	Assembled Shaft End Play	inches
🗨	Na	
11.	Air Gap Variation <10%	
🗨	Na	
●	12. Lead Condition	(P) Pass
		
13.	Lead Length	8 Inches
●	14. Does it have Lugs?, If so what is the Stud Size?	(No) No
15.	Lead Numbers	1-9
16.	Frame Condition	pass
17.	Fan Condition	(N) NA
🗨	Fan assembly not shipped with unit, and is missing.	
18.	Broken or Missing Components	DE housing broken. Housing mount bolt nuts gone.
		

Initial Electrical Inspection

19. Insulation Resistance/Megger

Megohms

Pass

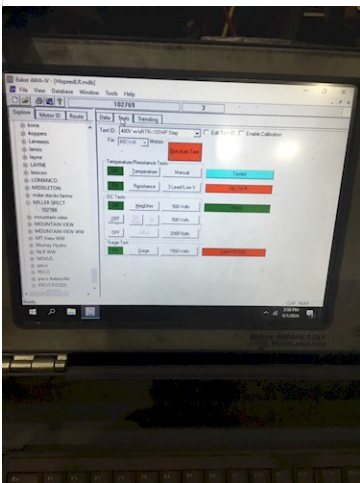


20. Winding Resistance

1-2

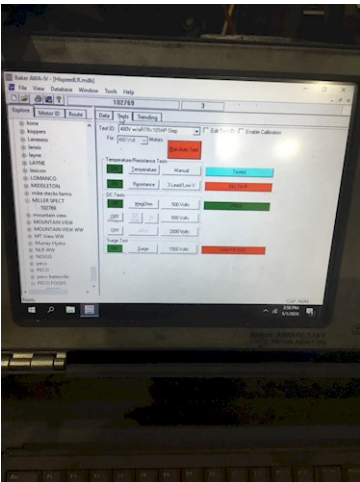
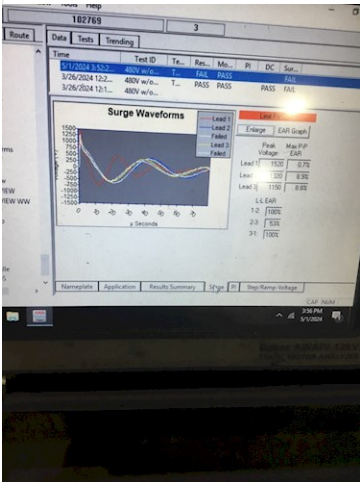
1-3

2-3



21. Perform Surge Test

(F) Fail



22. Number of Stator Slots

48

23. Stator Condition

rewind

24. Stator Thermistors/Ohms

na

25. Stator Overloads/Ohms

na

Mechanical Inspection

26. Drive End Bearing Brand	na
Not shipped with unit	
27. Drive End Bearing Number-	na
28. Drive End Bearing Qty.	0
Bearings not shipped with unit	
29. Drive End Bearing Type	
Missing	
30. Drive End Lubrication Type	(Grease) Grease Lubricated
31. Drive End Bearing Insulation or Grounding Device?	none
32. Drive End Wavy Washer/Snap-Ring Other Retention Device?	wavy washer
33. Drive End Bearing Condition	na
34. Opposite Drive End Bearing Brand	na
35. Opposite Drive End Bearing Number-	na
36. Opposite Drive End Bearing Qty.	0
Not shipped with unit.	
37. Opposite Drive End Bearing Type	
Na	
38. Opposite Drive End Lubrication Type	(Grease) Grease Lubricated
39. Opposite Drive End Bearing Insulation or Grounding Device?	na
40. Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?	wavy washer
41. Opposite Drive End Bearing Condition	
Na	
42. Drive End Seal	na
43. Opposite Drive End Seal	na

Rotor Inspection









44. Rotor Type/Material	(Squirrel Aluminum) Squirrel Cage Aluminum Die Cast
45. Growler Test	(Pass) Pass
46. Number of Rotor Bars	40
47. Rotor Condition	pass
48. List the Parts needed for the Repair Below	
Rewind stator, and replace DE housing.	
49. Signature of Technician that Disassembled Motor	Terrence Holland





Motor was in disassembled condition.co witnessed RRW

Mechanical Fits- Rotor

50. Shaft Runout	0.003 inches		
51. Rotor Runout			
Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing	
Na			


52.	Coupling Fit Closest to Bearing Housing		
	0 Degrees	90 Degrees	120 Degrees
	Na		
53.	Coupling Fit Closest to the end of the Shaft		
	0 Degrees	60 Degrees	120 Degrees
	Na		
54.	Drive End Bearing Shaft Fit		
	0 Degrees	60 Degrees	120 Degrees
	1.7722	1.7721	1.772
	55.	Drive End Bearing Shaft Fit Condition	(P) Pass
	56.	Opposite Drive End Bearing Shaft Fit	
		0 Degrees	60 Degrees 120 Degrees
		1.3784	1.3785 1.3783
	57.	Opposite Drive End Bearing Shaft Fit Condition	(P) Pass
	58.	Shaft Air Seal Fits	
		Drive End Air Seal	Opposite Drive End Air Seal
	Na		
Mechanical Fits- Bearing Housings			
	59.	Drive End - Endbell Bearing Fit	
		0 Degrees	60 Degrees 120 Degrees
	Housing to be replaced		
	60.	Drive End - Endbell Bearing Fit Condition	(NA) Not Applicable
	61.	Opposite Drive End - Endbell Bearing Fit	
		0 Degrees	60 Degrees 120 Degrees
		3.1502	3.1503 3.1502
	62.	Opposite Drive End - Endbell Bearing Fit Condition	(P) Pass
	63.	Bearing Cap Condition	
		Drive End Bearing Cap	Opposite Drive End Bearing Cap
		na	pass



64. End Bell Air Seal Fits		
Drive End Air Seal	Opposite Drive End Air Seal	
<div> <div></div> <div>Na</div> </div>		
65. List Machine Work Needed Below		
None		
66. Technician		Terrence Holland
<div>   </div>		
<div> <div></div> <div>Co signee:</div> </div>		
Root Cause of Failure		
67. Failure locations		
Rewind stator, and replace DE housing.		
68. Root cause of failure		
Windings saturated with oil, and de housing broken.		
Dynamic Balance Report		
69. Rotor Weight and Balance Grade		
Rotor Weight	Balance Grade	
70. Initial Balance Readings		
Drive End	Opposite Drive End	
71. Final Balance Readings		
Drive End	Opposite Drive End	
72. Technician		
Rewind		
73. Core Test Results - Watts loss per Pound		
Pre-Burnout	Post Burnout	
74. Core Hot Spot Test		
Pre-Burnout	Post-Burnout	
75. Post Rewind Electrical Test- Insulation Resistance		
		Megohms
76. Post Rewind Polarization Index		
		Polarization Index
77. Post Rewind Winding Resistance		
1-2	1-3	2-3
78. Post Rewind Surge Test		
79. Post Rewind Hi-Pot		micro-amps
80. Technician		
Mechanical Fits- Bearing Housings - Post Repair		
81. Drive End - Endbell Bearing Fit Post Repair		
0 Degrees	60 Degrees	120 Degrees

82. Opposite Drive End - Endbell Bearing Fit Post Repair		
0 Degrees	60 Degrees	120 Degrees
83. Bearing Cap Condition Post Repair		
Drive End Bearing Cap	Opposite Drive End Bearing Cap	
84. End Bell Air Seal Fits Post Repair		
Drive End Air Seal	Opposite Drive End Air Seal	
85. End Bell Repair Sign-off		



Assembly		
86. QC Check All Parts for Cleanliness Prior to Assembly		Cw
		

87. Photograph All Major Components prior to assembly



88. Final Insulation Resistance Test

Megohms

Pass

89. Assembled Shaft Endplay

inches

90. Assembled Shaft Runout

inches

91. Test Run Voltage

Volts

Volts

Volts



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92. Test Run Amperage

Amps

Amps

Amps



93. Drive End Vibration Readings - Inches Per Second

Horizontal

Vertical

Axial

94. Opposite Drive End Vibration Readings - Inches Per Second

Horizontal

Vertical

Axial

95. Ambient Temperature - Fahrenheit

96. Drive End Bearing Temps - Fahrenheit

5 Minutes

10 Minutes

15 Minutes

97. Opposite Drive End Bearing Temps - Fahrenheit

5 Minutes

10 Minutes

15 Minutes

98. Document Final Condition with Pictures after paint



99. Final Pics and QC Review

Cw



Co sign: RRW

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1.10



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


AC Random Coil Rewind Report

FolderID: 102769
FormID: 20498749

Miller Spectacular Shows (12776)

79 Mountain Drive
Greenbrier, AR 72058

LITTLE ROCK MOTOR SHOP

Priorities Found:  1 - Good

General

1. Job Number
2. Report Date
3. Customer

Stator Winding

4. Core Length
5. Core ID
6. Back Iron Depth
7. Slot Depth
8. Tooth Width
9. Number of Vents
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 48
29. Number of Coils 48
30. Coil Weight 12 Lbs.
31. Lead Markings
32. Grouping
12-4
-  33. Multiple Wires (Y) Yes

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34. Wire Size	
1-21-1-22	
35. Turns per coil	21
36. Pitch 1 to:	12
37. Connection	
38. Lead Length	1 "
39. Lead Size	16
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	
RHR	



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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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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.
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