



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

LR Motor Shop Repairs

Job Number 103497

Prepared for Arkansas Electric Coop. (11681)

17400 highway 365 south
Little Rock AR 72206

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

AC Inspection as Found
Arkansas Electric Coop. (11681)
17400 highway 365 south
Little Rock, AR 72206

FolderID: 103497
FormID: 21598219

AC Inspection - Rev. 2

Location: MOTOR SHOP LR
Serial Number: F0205155635
Description: 4.3/7.5 HP AMETEK/ BALDOR

Hi-Speed Job Number:	103497
Manufacturer:	Baldor
Spec/ID #:	07H383W361G1
Serial Number:	F0205155635
HP/kW:	7.5 (HP)
RPM:	3450 (RPM)
Frame:	215TCZ
Voltage:	208-230/460
Current:	24.5-22.2/11.1 (Amps)
Phase:	Three
Hz:	60 (Hz)
Service Factor:	1.15
Enclosure:	TEFC
# of Leads:	9
J-box Included:	Complete
Coupling/Sheave:	Fan
Date Received:	09/11/2024
Bearing RTDs:	No
Stator RTDs:	No
Repair Stage:	Final
Rewind:	Yes
Shaft Machined Fit Repairs Required:	Yes
Bearing Housing Machined Fit Repairs Required:	Yes
Heaters:	No
Winding Type :	Random Wound
Bearing Type:	Rolling Element

Priorities Found: 4 - High 6 - Good

Overall Condition

1. Report Date	09/12/2024
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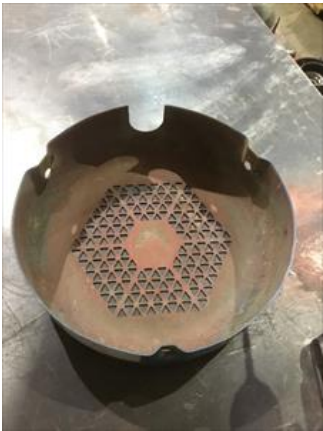
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2. Nameplate Picture



3. Photos of all six sides of the machine.

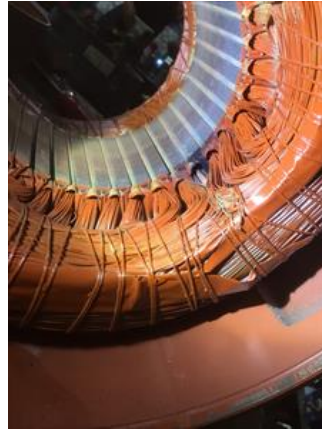




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4. Describe the Overall Condition of the Equipment as Received <i>Dirty</i>		
5. Distance from the end of the shaft to the Coupling/Sheave <i>Flush</i>		inches
6. Report Date [COPY]		
Initial Mechanical/Electrical		
7. Does Shaft Turn Freely?		(Y) Yes
8. Does the shaft require T.I.R in Lathe to identify additional repairs?		(No) No
9. Does Shaft Have Visible Damage?		(No) No
10. Assembled Shaft Runout		Inches
11. Assembled Shaft End Play		inches
12. Air Gap Variation <10%		
13. Lead Condition		(NA) Not Applicable
14. Lead Length		12 Inches
15. Does it have Lugs?, If so what is the Stud Size? <i>Yes</i>		
16. Lead Numbers		1-9
17. Frame Condition		pass
18. Fan Condition		(P) Pass
19. Broken or Missing Components		
Initial Electrical Inspection		
20. Insulation Resistance/Megger		Megohms
21. Winding Resistance		
1-2	1-3	2-3
22. Perform Surge Test <i>Rewind</i>		
(NA) Not Applicable		
23. Number of Stator Slots		
24. Stator Condition		needs rewind
25. Stator Thermistors/Ohms		
26. Stator Overloads/Ohms		
Mechanical Inspection		
27. Drive End Bearing Brand		skf

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28. Drive End Bearing Number-

6309



- | | |
|---|----------------------------|
| 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? | |
| 33. Drive End Wavy Washer/Snap-Ring Other Retention Device? | |
| 34. Drive End Bearing Condition | |


Fluting




- | | |
|--|----------------------------|
| 35. Opposite Drive End Bearing Brand | skf |
| 36. Opposite Drive End Bearing Number- | 6206 |
| 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? | |
| 41. Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device? | spacers |
| 42. Opposite Drive End Bearing Condition | |

Signs of frosting



43. Drive End Seal	
44. Opposite Drive End Seal	
Rotor Inspection	
45. Rotor Type/Material	(Squirrel Aluminum) Squirrel Cage Aluminum Die Cast
46. Growler Test	(Pass) Pass
47. Number of Rotor Bars	
48. Rotor Condition	pass
49. List the Parts needed for the Repair Below 6309 6206 Sleeve for ODE end bell fit	
50. Signature of Technician that Disassembled Motor	Cw
	
Mechanical Fits- Rotor	
51. Shaft Runout	inches
52. Rotor Runout	
Drive End Bearing Fit	Rotor Body
Opposite Drive End Bearing	
53. Coupling Fit Closest to Bearing Housing	
0 Degrees	90 Degrees
120 Degrees	
54. Coupling Fit Closest to the end of the Shaft	
0 Degrees	60 Degrees
120 Degrees	
55. Drive End Bearing Shaft Fit	
0 Degrees	60 Degrees
120 Degrees	
1.7712	1.7713
1.7712	
56. Drive End Bearing Shaft Fit Condition	(F) Fail
57. Opposite Drive End Bearing Shaft Fit	
0 Degrees	60 Degrees
120 Degrees	
1.1809	1.1809
1.1808	
58. Opposite Drive End Bearing Shaft Fit Condition	(F) Fail

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59. Shaft Air Seal Fits			
Drive End Air Seal		Opposite Drive End Air Seal	
Mechanical Fits- Bearing Housings			
60. Drive End - Endbell Bearing Fit			
0 Degrees		60 Degrees	120 Degrees
3.9378		3.9378	3.9378
61. Drive End - Endbell Bearing Fit Condition			(P) Pass
62. Opposite Drive End - Endbell Bearing Fit			
0 Degrees		60 Degrees	120 Degrees
<div> <div></div> <div>Excessive wear</div> </div>			
63. Opposite Drive End - Endbell Bearing Fit Condition			(F) Fail
64. Bearing Cap Condition			
Drive End Bearing Cap		Opposite Drive End Bearing Cap	
<div> <div></div> <div>Pass</div> </div>			
65. End Bell Air Seal Fits			
Drive End Air Seal		Opposite Drive End Air Seal	
66. List Machine Work Needed Below			
Bothe shaft bearing fits and ODE end bell bearing fit			
67. Technician			Cw
			
<div> <div></div> <div>Co sign: RRW</div> </div>			
Root Cause of Failure			
68. Failure locations			
Bearings, windings, and bearing fits			
69. Root cause of failure			
Frostings, short to ground, and wear			
Dynamic Balance Report			

70. Rotor Weight and Balance Grade

Rotor Weight

Balance Grade



71. Initial Balance Readings

Drive End

Opposite Drive End

.25

.21

72. Final Balance Readings

Drive End

Opposite Drive End

.25

.21

73. Technician

RW

Rewind

74. Core Test Results - Watts loss per Pound

Pre-Burnout

Post Burnout

75. Core Hot Spot Test

Pre-Burnout

Post-Burnout

76. Post Rewind Electrical Test- Insulation Resistance

Megohms

77. Post Rewind Polarization Index

Polarization Index

78. Post Rewind Winding Resistance

1-2

1-3

2-3

79. Post Rewind Surge Test

(Pass) Pass

80. Post Rewind Hi-Pot

micro-amps

81. Technician

Mechanical Fits- Rotor - Post Repair

82. Shaft Runout Post Repair

0.0005 inches

83. Rotor Runout Post Repair

Drive End Bearing Fit

Rotor Body

Opposite Drive End Bearing

0.001

0.001

0.001

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84. Coupling Fit Closest to Bearing Housing Post Repair		
0 Degrees	90 Degrees	120 Degrees
85. Coupling Fit Closest to the end of the Shaft Post Repair		
0 Degrees	60 Degrees	120 Degrees
86. Drive End Bearing Shaft Fit Post Repair		
0 Degrees	60 Degrees	120 Degrees
1.7722	1.7722	1.7722



87. Opposite Drive End Bearing Shaft Fit Post Repair		
0 Degrees	60 Degrees	120 Degrees
1.1815	1.1815	1.1815



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


89. Shaft Repair Sign-off	Gary
	


Mechanical Fits- Bearing Housings - Post Repair

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90. Drive End - Endbell Bearing Fit Post Repair		
0 Degrees	60 Degrees	120 Degrees
91. Opposite Drive End - Endbell Bearing Fit Post Repair		
0 Degrees	60 Degrees	120 Degrees
2.441	2.441	2.4411



92. Bearing Cap Condition Post Repair		
Drive End Bearing Cap	Opposite Drive End Bearing Cap	
93. End Bell Air Seal Fits Post Repair		
Drive End Air Seal	Opposite Drive End Air Seal	
94. End Bell Repair Sign-off		Gary
		

Assembly		
95. QC Check All Parts for Cleanliness Prior to Assembly		RW
		

96. Photograph All Major Components prior to assembly

(Complete) Complete



97. Final Insulation Resistance Test	Megohms
Pass the Hi pot	
98. Assembled Shaft Endplay	inches
Na	
99. Assembled Shaft Runout	inches
Na	

100. Test Run Voltage

Volts	Volts	Volts
458	456	458
<div> <div></div> <div>Co sign DM</div> </div>		



Motor only



Blower



101. Test Run Amperage		
Amps	Amps	Amps
5.6	5.3	5.4



Motor only



Blower




102. Drive End Vibration Readings - Inches Per Second		
Horizontal	Vertical	Axial
Na		
103. Opposite Drive End Vibration Readings - Inches Per Second		
Horizontal	Vertical	Axial
Na		
104. Ambient Temperature - Fahrenheit		
Na		
105. Drive End Bearing Temps - Fahrenheit		
5 Minutes	10 Minutes	15 Minutes
Na		

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106. Opposite Drive End Bearing Temps - Fahrenheit			
	5 Minutes	10 Minutes	15 Minutes
Na			
107. Document Final Condition with Pictures after paint			



108. Final Pics and QC Review	RW
	
Co sign DM	



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

AC Random Coil Rewind Report

FolderID: 103497
FormID: 21667987

Arkansas Electric Coop. (11681)
17400 highway 365 south
Little Rock, AR 72206

Performed By: Motor Shop LR 2
Date Completed: 9/24/2024

MOTOR SHOP LR

Priorities Found: 3 - High 5 - Good

General	
1. Job Number	103497
2. Report Date	09/19/2024
3. Customer	AR Electric COOP
Stator Winding	
4. Core Length	2.5 "
5. Core ID	4.375 "
6. Back Iron Depth	1.125 "
7. Slot Depth	1 "
8. Tooth Width	0.1875 "
9. Number of Vents	
Na	
10. Vent Width	"
Na	
11. Before Burnout Core loss	(P) Pass
2.6	
12. Flux Before Burnout	
13. Watts before burnout	
14. Watts loss per lb. before burnout	2.6 W/lbs.
15. After Burnout Core Loss	(P) Pass
16. Flux After burnout	
17. Watts After Burnout	
18. Watts loss per lb After Burnout	2.95 W/lbs.
19. Core Iron Condition	(P) Pass
No hot spots	
20. RTD's	(N) No
21. RTD's Reading	
22. Motor Heaters	(N) No
23. Heater Qty.	0
24. Heater Voltage	Volts
Na	
25. Heater Wattage	Watts
Na	
26. Thermistors	(N) No
27. Number of Poles	2
28. Slots	36

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29. Number of Coils	18
30. Coil Weight	25 Lbs.
31. Lead Markings 1-9	
32. Grouping 6g 3c	
33. Multiple Wires	(Y) Yes
34. Wire Size 7 #21	
35. Turns per coil 1-14 1-16 1-18 29. 30. 30.	
36. Pitch 1 to: 2.5" coil extensions 1-14 16. 18	
37. Connection 1 Wye @460 2 Wye @230	
38. Lead Length	11 "
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	Ua



46. Surge Pattern After Rewind	(P) Pass
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2. **PRICE.** All quoted prices shall remain firm and binding for a period of thirty (30) days from the date of quotation or for the period specifically stated in the quotation. The price for any and all goods and/or services ordered or approved by Buyer after thirty (30) days from the date of any quotation are subject to any increase in price that may occur after the expiration of thirty (30) days from the issuance of the quotation and the date the Buyer releases any shipment.
3. **SCOPE OF GOODS AND/OR SERVICES.** The goods and/or services provided by Hi-Speed pursuant to any quotation shall be limited exclusively to those goods and/or services expressly identified therein. Hi-Speed does not assume any responsibility and/or liability for the failure to provide any other goods and/or services not identified in any quotation. Modifications, additions or deletions to or from the scope referenced in any quotation shall only be effective if evidenced in writing and signed by Hi-Speed. The sale of any of all goods and/or services affected by such modification, addition or deletion shall be subject to these same Standard Terms and Conditions whether or not referenced therein.
4. **BILLING AND PAYMENT TERMS.** Hi-Speed shall invoice Buyer for all goods and/or services as same are rendered at the address listed on the quotation. Payments for all goods and/or services shall be due thirty (30) days from the date of the current invoice or as otherwise set forth in the quotation. Late payments are subject to a late fee of 5% of the total invoice amount. Recurring late payments may lead to a deposit requirement on future services or sale of goods. Buyer shall be liable to Hi-Speed for any and all fees and expenses incurred by Hi-Speed to collect any invoices or to enforce these Standard Terms and Conditions, including but not limited to, attorney's fees.
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.
6. **DELIVERY SITE AND TIME FOR PERFORMANCE.** Hi-Speed and Buyer agree that time is of the essence for the purchase order and that Buyer shall fully cooperate with Hi-Speed in order to allow Hi-Speed full access to prosecute its work diligently and in an orderly manner. Buyer shall assist Hi-Speed in every way possible to avoid delaying, disrupting or interfering with the progress of Hi-Speed's work at the project site. In the event Hi-Speed's work is delayed, hindered, suspended, disrupted, re-sequenced or interfered with or rendered less efficient or more costly or adversely affected in any way as a result of acts or omissions of Buyer or other contractors or employees of Buyer or by any other reason beyond Hi-Speed's control and without the fault of Hi-Speed, then, in such event, Buyer shall be liable to Hi-Speed for any damages, additional costs, expenses, labor, materials, man hours, acceleration costs, overtime, additional jobsite overhead, extended home office overhead, and any and all other direct and indirect expenses of whatsoever nature or kind, caused in whole or in part, as a result of any of the above-referenced occurrences. Hi-Speed's project records will be the basis for computing the additional costs and damages of Hi-Speed's labor, materials, expenses and overhead related to such changes. BUYER WARRANTS THAT THE SITE FOR DELIVERY OR INSTALLATION OF ANY GOODS AND/OR FOR THE PERFORMANCE OF ANY SERVICES SHALL BE READY AND ADEQUATE FOR HI-SPEED'S DELIVERY OF GOODS AND/OR PERFORMANCE OF SERVICES AND THAT HI-SPEED SHALL HAVE FULL ACCESS THERETO, FREE OF ALL OBSTRUCTIONS. BUYER SHALL ASSUME ALL EXTRA COSTS ASSOCIATED WITH HI-SPEED'S INABILITY TO INSTALL ANY GOODS OR PERFORM ANY SERVICES AS A RESULT OF BUYER'S FAILURE TO COMPLY WITH THIS PROVISION. HI-SPEED MAY NOT INSPECT THE SITE PRIOR TO DELIVERY AND/OR INSTALLATION OF GOODS AND/OR PERFORMANCE OF SERVICES AND MAKES NO WARRANTY AS TO THE SUFFICIENCY OF THE SITE FOR THE DELIVERY AND/OR INSTALLATION OF GOODS AND/OR THE PERFORMANCE OF SERVICES AT SUCH SITE.
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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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10. **SEVERABILITY.** The partial or complete invalidity of any provision of these Standard Terms and Conditions shall not affect the enforceability of the remainder of these Standard Terms and Conditions. If any provision is found to be invalid or unenforceable, that portion shall be modified to make it enforceable or shall be stricken and the remainder of these Standard Terms and Conditions shall enforced.
11. **GOVERNING LAW AND JURISDICTION.** Any controversy arising out of any quotation, the purchase order, the goods sold or delivered, repair or replacement thereof, or any services provided pursuant to any quotation or any purchase order, or these Standard Terms and Conditions shall be governed by the laws of the state of Tennessee without regard to any choice of law provisions and any cause of action related in any manner thereto shall be brought only in the state or federal courts of Shelby County, Tennessee.
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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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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.