



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

LR Motor Shop Repairs

**Job Number 100457**

Prepared for Arkansas Electric Coop. (11681)

17400 highway 365 south  
Little Rock AR 72206

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AC Recondition As Found - *MOTOR SHOP LR*

AC Recondition - Rev. 2: *F600*

**1.0**

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

## AC Recondition As Found

Arkansas Electric Coop. (11681)

17400 highway 365 south  
Little Rock, AR 72206

FolderID: 100457  
FormID: 14840142

### AC Recondition - Rev. 2

Location: MOTOR SHOP LR

Serial Number: F600

Description: 7.5HP BALDOR 3600RPM 215TCZ  
AMETEK ROTRON BLOWER

Hi-Speed Job Number: 100457

Manufacturer: Baldor

Product Number: 511570

Spec/ID #: 07H383W361G1

Serial Number: F600

HP/kW: 7.5 (HP)

RPM: 3450 (RPM)

Frame: 215TCZ

Voltage: 230 / 460

Current: 22.2/11.1

Phase: Three

Hz: 60 (Hz)

Service Factor: 1.15

Enclosure: TEFC

J-box Included: Complete

Bearing RTDs: No


Stator RTDs: No

Repair Stage: Final

Heaters: No

Winding Type : Random Wound

Bearing Type: Rolling Element

Priorities Found:  7 - Good

### Overall Condition

1. Report Date

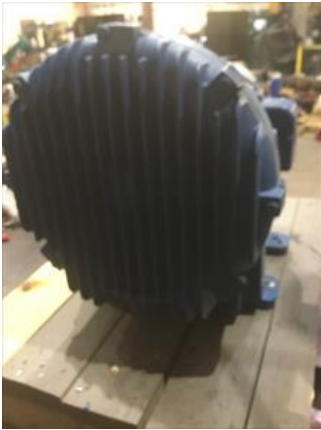
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1.0

## 2. Nameplate Picture



3. Photos of all six sides of the machine.
4. Describe the Overall Condition of the Equipment as Received
5. Distance from the end of the shaft to the Coupling/Sheave

### Initial Mechanical/Electrical

6. Does Shaft Turn Freely?
7. Does Shaft Have Visible Damage?
8. Assembled Shaft Runout
9. Assembled Shaft End Play

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10. Air Gap Variation <10%	
● 11. Lead Condition	(P) Pass



12. Lead Length	12 Inches
13. Frame Condition	pass
● 14. Fan Condition	(P) Pass



15. Broken or Missing Components		
Initial Electrical Inspection		
16. Insulation Resistance/Megger		270014 Megohms
17. Winding Resistance		
1-2	1-3	2-3
1.838	1.838	1.841

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18. Perform Surge Test

(P) Pass



19. Stator Condition

wash and bake



Mechanical Inspection

20. Drive End Bearing Number-

6309



Fatigue

21. Drive End Bearing Qty.

1

22. Drive End Bearing Type

(Ball) Ball Bearing

23. Drive End Lubrication Type

(Grease) Grease Lubricated

24. Drive End Bearing Insulation or Grounding Device?

na

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25. Drive End Wavy Washer/Snap-Ring Other Retention Device?	na
26. Drive End Bearing Condition	
27. Opposite Drive End Bearing Number-	6206



28. Opposite Drive End Bearing Qty.	1
29. Opposite Drive End Bearing Type	(Ball) Ball Bearing
30. Opposite Drive End Lubrication Type	(Grease) Grease Lubricated
31. Opposite Drive End Bearing Insulation or Grounding Device?	na
32. Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?	wavy washer
33. Opposite Drive End Bearing Condition	
34. Drive End Seal	
35. Opposite Drive End Seal	
<b>Rotor Inspection</b>	
36. Rotor Type/Material	(Squirrel Aluminum) Squirrel Cage Aluminum Die Cast
37. Growler Test	(Pass) Pass
38. Number of Rotor Bars	28
39. Rotor Condition	



40. List the Parts needed for the Repair Below
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41. Signature of Technician that Disassembled Motor

RW

### Mechanical Fits- Rotor

42. Shaft Runout

43. Rotor Runout

Drive End Bearing Fit

Rotor Body

Opposite Drive End Bearing

44. Coupling Fit Closest to Bearing Housing

0 Degrees

90 Degrees

120 Degrees

45. Coupling Fit Closest to the end of the Shaft

0 Degrees

60 Degrees

120 Degrees

46. Drive End Bearing Shaft Fit

0 Degrees

60 Degrees

120 Degrees

1.772

1.772

1.772

47. Drive End Bearing Shaft Fit Condition

(P) Pass

48. Opposite Drive End Bearing Shaft Fit

0 Degrees

60 Degrees

120 Degrees

1.1812

1.1812

1.1812

49. Opposite Drive End Bearing Shaft Fit Condition

(P) Pass

50. Shaft Air Seal Fits

Drive End Air Seal

Opposite Drive End Air Seal

### Mechanical Fits- Bearing Housings

51. Drive End - Endbell Bearing Fit

0 Degrees

60 Degrees

120 Degrees

3.9379

3.9379

3.9379



52. Drive End - Endbell Bearing Fit Condition

(P) Pass

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## 53. Opposite Drive End - Endbell Bearing Fit

0 Degrees

60 Degrees

120 Degrees

2.4414

2.4414

2.4414



## 54. Opposite Drive End - Endbell Bearing Fit Condition

(P) Pass

## 55. Bearing Cap Condition

Drive End Bearing Cap

Opposite Drive End Bearing Cap

pass

na



## 56. End Bell Air Seal Fits

Drive End Air Seal

Opposite Drive End Air Seal

## 57. List Machine Work Needed Below

## 58. Technician

RW

A handwritten signature in black ink, consisting of the letters 'R' and 'W' joined together.

## Dynamic Balance Report

## 59. Rotor Weight and Balance Grade

Rotor Weight

Balance Grade

60. Initial Balance Readings			
Drive End	Opposite Drive End		
61. Final Balance Readings			
Drive End	Opposite Drive End		
62. Technician			
<b>Rewind</b>			
63. Core Test Results - Watts loss per Pound			
Pre-Burnout	Post Burnout		
64. Core Hot Spot Test			
Pre-Burnout	Post-Burnout		
65. Post Rewind Electrical Test- Insulation Resistance			
66. Post Rewind Polarization Index			
67. Post Rewind Winding Resistance			
1-2	1-3	2-3	
68. Post Rewind Surge Test			
69. Post Rewind Hi-Pot			
70. Technician			
<b>Root Cause of Failure</b>			
71. Failure locations			
<i>Drive bearing metal fatigue</i>			
72. Root cause of failure			
<b>Mechanical Fits- Rotor - Post Repair</b>			
73. Shaft Runout Post Repair			
74. Rotor Runout Post Repair			
Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing	
75. Coupling Fit Closest to Bearing Housing Post Repair			
0 Degrees	90 Degrees	120 Degrees	
76. Coupling Fit Closest to the end of the Shaft Post Repair			
0 Degrees	60 Degrees	120 Degrees	
77. Drive End Bearing Shaft Fit Post Repair			
0 Degrees	60 Degrees	120 Degrees	
78. Opposite Drive End Bearing Shaft Fit Post Repair			
0 Degrees	60 Degrees	120 Degrees	
79. Shaft Air Seal Fits Post Repair			
Drive End Air Seal	Opposite Drive End Air Seal		
80. Shaft Repair Sign-off			
<b>Mechanical Fits- Bearing Housings - Post Repair</b>			

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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.	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
	458	455	457



91. Test Run Amperage

Amps

5.5

Amps

5.4

Amps

5.3



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. Final Test Run Sign-off

98. Document Final Condition with Pictures after paint



99. Final Pics and QC Review

RW

AW



## STANDARD TERMS AND CONDITIONS FOR PURCHASE OF GOOD AND/OR SERVICES

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.
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.
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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.
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.