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— EVERY DAY SINCE 1946 —

LR Motor Shop Repairs

Job Number 102471

Prepared for North Little Rock Wastewater (10219)

7400 Baucum Pike
N. Little Rock AR 72117

Table of Contents

AC Inspection as Found - *MOTOR SHOP LR*

AC Inspection - Rev. 2: *Z0911191186*

1.0

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Table of Contents



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Millington, Tn 38053
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AC Inspection as Found
North Little Rock Wastewater (10219)
7400 Baucum Pike
N. Little Rock, AR 72117

FolderID: 102471
FormID: 19320094

AC Inspection - Rev. 2

Location: MOTOR SHOP LR

Serial Number: Z0911191186

Description: 15HP BALDOR AERATOR
1800RPM 254LPZ

Hi-Speed Job Number: 102471

Manufacturer: Baldor

Product Number: 09H763X661G3

Spec/ID #: 09H763X661G3

Serial Number: Z0911191186

HP/kW: 15 (HP)

RPM: 1760 (RPM)

Frame: 254LPZ

Voltage: 230 / 460

Current: 36.2/18.1

Phase: Three

Hz: 60 (Hz)

Service Factor: 1.15

Enclosure: TEFC

J-box Included: Complete

Coupling/Sheave: Propeller

Bearing RTDs: No

Stator RTDs: No

Repair Stage: Final

Heaters: No

Winding Type : Random Wound

Bearing Type: Rolling Element

Priorities Found: ● 5 - High ● 7 - Good

Overall Condition

- | | |
|----------------------|------------|
| 1. Report Date | 02/12/2024 |
| 2. Nameplate Picture | |



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3. Photos of all six sides of the machine.



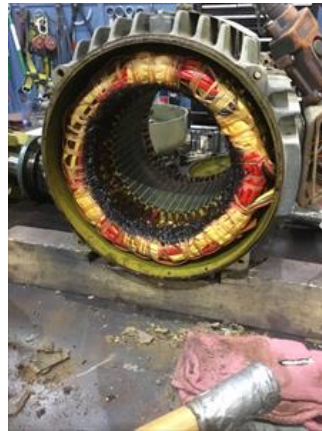


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4.	Describe the Overall Condition of the Equipment as Received	
	<i>Dirty, rusted, flange broken</i>	
5.	Distance from the end of the shaft to the Coupling/Sheave	inches
	<i>Na</i>	
Initial Mechanical/Electrical		
6.	Does Shaft Turn Freely?	(Yes) Yes
7.	Does the shaft require T.I.R in Lathe to identify additional repairs?	(No) No
8.	Does Shaft Have Visible Damage?	(Yes) Yes
	<i>Minor wear but unconvincing</i>	
9.	Assembled Shaft Runout	0.01 Inches
10.	Assembled Shaft End Play	inches
	<i>Na</i>	
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

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16. Frame Condition

stator is good but DE end bell is bad



17. Fan Condition

(P) Pass



18. Broken or Missing Components

broken flange and broken impeller bolt

Initial Electrical Inspection

19. Insulation Resistance/Megger

Megohms

Coil 3 (Ohms)	0.997 Corr: 1.0...	
Megohm Stat...	PASS	No Test
Volts (V)	498	
I(μA)	0.0135	
Resist	36867	
At 40°C	9954	
DI Status	N/A Test	N/A Test
Nameplate	Application	Results Sum

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20. Winding Resistance

1-2

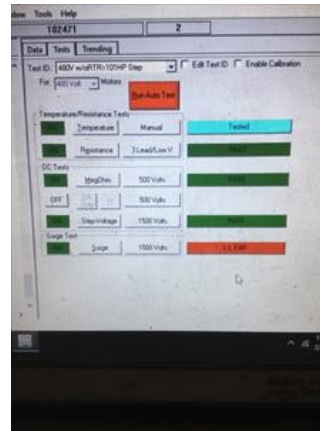
1-3

2-3

IR Temp Com...	Thermoplastic	None
Resist Status	PASS	No Test
Bal L1 (Ohms)		
Bal L2 (Ohms)		
Bal L3 (Ohms)		
L1-L2 (Ohms)	0.658 Corr: 0.6...	
L2-L3 (Ohms)	0.670 Corr: 0.6...	
L3-L1 (Ohms)	0.665 Corr: 0.6...	
Max Delta R %	1.837	
Coil 1 (Ohms)	0.978 Corr: 0.9...	
Coil 2 (Ohms)	1.014 Corr: 1.0...	
Coil 3 (Ohms)	0.997 Corr: 1.0...	
Microhm/Sec	PASS	No Test
Nameplate	Application	Results Summary

21. Perform Surge Test

(P) Pass



22. Number of Stator Slots

48

23. Stator Condition

pass but dirty

24. Stator Thermistors/Ohms

Na

25. Stator Overloads/Ohms

pass

Mechanical Inspection

26. Drive End Bearing Brand

Na

27. Drive End Bearing Number-

5213

28. Drive End Bearing Qty.

1

29. Drive End Bearing Type

(Ball) Ball Bearing

Double wide double row



30. Drive End Lubrication Type

(Grease) Grease Lubricated

31. Drive End Bearing Insulation or Grounding Device?

Na

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

spanner nut

33. Drive End Bearing Condition

signs of frosting and contamination

34. Opposite Drive End Bearing Brand

na

35. Opposite Drive End Bearing Number-

6208



36. Opposite Drive End Bearing Qty.

1

37. Opposite Drive End Bearing Type

(Ball) Ball Bearing

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

Signs of frosting and contamination



42.	Drive End Seal	labyrinth seal	
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	42	
47.	Rotor Condition	pass	
48.	List the Parts needed for the Repair Below		
	New DE end bell, base plate bushing, and impeller nut		
49.	Signature of Technician that Disassembled Motor	Cw	
			
Mechanical Fits- Rotor			
50.	Shaft Runout	0.01 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
	2.5592	2.5592	2.5591
	55.	Drive End Bearing Shaft Fit Condition	(P) Pass

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56. Opposite Drive End Bearing Shaft Fit			
0 Degrees	60 Degrees	120 Degrees	
1.5744	1.5746	1.5745	
57. Opposite Drive End Bearing Shaft Fit Condition			(F) Fail
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	
Na			
60. Drive End - Endbell Bearing Fit Condition			(F) Fail
Broken flange needs replaced			
61. Opposite Drive End - Endbell Bearing Fit			
0 Degrees	60 Degrees	120 Degrees	
3.1507	3.1509	3.1504	
62. Opposite Drive End - Endbell Bearing Fit Condition			(F) Fail
63. Bearing Cap Condition			
Drive End Bearing Cap	Opposite Drive End Bearing Cap		
Pass			



64. End Bell Air Seal Fits			
Drive End Air Seal	Opposite Drive End Air Seal		
Na			
65. List Machine Work Needed Below			
ODE shaft bearing fit and ODE end bell bearing fit and new bushing			
66. Technician			Cw

Root Cause of Failure

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67.	Failure locations <i>Bearings, bushing, DE end bell flange, and ODE shaft bearing fit and ODE end bell bearing fit</i>		
68.	Root cause of failure <i>Wear, contamination,</i>		
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		
76.	Post Rewind Polarization Index		
77.	Post Rewind Winding Resistance		
	1-2	1-3	2-3
78.	Post Rewind Surge Test		
79.	Post Rewind Hi-Pot		
80.	Technician		
Mechanical Fits- Rotor - Post Repair			
81.	Shaft Runout Post Repair		
82.	Rotor Runout Post Repair		
	Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing
83.	Coupling Fit Closest to Bearing Housing Post Repair		
	0 Degrees	90 Degrees	120 Degrees
84.	Coupling Fit Closest to the end of the Shaft Post Repair		
	0 Degrees	60 Degrees	120 Degrees
85.	Drive End Bearing Shaft Fit Post Repair		
	0 Degrees	60 Degrees	120 Degrees
86.	Opposite Drive End Bearing Shaft Fit Post Repair		
	0 Degrees	60 Degrees	120 Degrees

87. Shaft Air Seal Fits Post Repair			
Drive End Air Seal	Opposite Drive End Air Seal		
88. Shaft Repair Sign-off			
Mechanical Fits- Bearing Housings - Post Repair			
89. Drive End - Endbell Bearing Fit Post Repair			
0 Degrees	60 Degrees	120 Degrees	
90. Opposite Drive End - Endbell Bearing Fit Post Repair			
0 Degrees	60 Degrees	120 Degrees	
91. Bearing Cap Condition Post Repair			
Drive End Bearing Cap	Opposite Drive End Bearing Cap		
92. End Bell Air Seal Fits Post Repair			
Drive End Air Seal	Opposite Drive End Air Seal		
93. End Bell Repair Sign-off			
Assembly			
94. QC Check All Parts for Cleanliness Prior to Assembly			
95. Photograph All Major Components prior to assembly			
96. Final Insulation Resistance Test			
97. Assembled Shaft Endplay			
98. Assembled Shaft Runout			
99. Test Run Voltage			
Volts	Volts	Volts	
100. Test Run Amperage			
Amps	Amps	Amps	
101. Drive End Vibration Readings - Inches Per Second			
Horizontal	Vertical	Axial	
102. Opposite Drive End Vibration Readings - Inches Per Second			
Horizontal	Vertical	Axial	
103. Ambient Temperature - Fahrenheit			
104. Drive End Bearing Temps - Fahrenheit			
5 Minutes	10 Minutes	15 Minutes	
105. Opposite Drive End Bearing Temps - Fahrenheit			
5 Minutes	10 Minutes	15 Minutes	
106. Document Final Condition with Pictures after paint			
107. Final Pics and QC Review			



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.
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.