



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

LR Motor Shop Repairs

**Job Number 102599**

Prepared for LITTLE ROCK ZOO

1 ZOO DRIVE  
LITTLE ROCK AR 72205

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

**AC Inspection as Found**  
**LITTLE ROCK ZOO**  
1 ZOO DRIVE  
LITTLE ROCK, AR 72205

FolderID: 102599  
FormID: 19660829

**AC Inspection - Rev. 2**

Location: LR Motor Shop

Serial Number: F1004122359

Description: 2HP 1170RPM BALDOR

Hi-Speed Job Number: 102599

Manufacturer: Baldor

Spec/ID #: 06H086W421G3

Serial Number: F1004122359

HP/kW: 2 (HP)

RPM: 1170 (RPM)

Frame: 184JM

Voltage: 208-230/460

Phase: Three

Hz: 60 (Hz)

Service Factor: 1.15

Repair Stage: Final

Rewind: Yes

Shaft Machined Fit Repairs  
Required: No

Bearing Housing Machined  
Fit Repairs Required: Yes

Heaters: No

Winding Type : Random Wound

Bearing Type: Rolling Element

Priorities Found: ● 4 - High ● 7 - Good

**Overall Condition**

1. Report Date
2. Nameplate Picture



3. Photos of all six sides of the machine.

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1.3





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4. Describe the Overall Condition of the Equipment as Received

*Impellor is loose on the shaft. Needs machined or replaced. Opposite drive end bell needs sleeved. Stator needs rewound. Need new 1.25 inch car/cer pump seal. Bowl needs ring machined.*

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

**Initial Mechanical/Electrical**


<input checked="" type="radio"/>	6. Does Shaft Turn Freely?	(Yes) Yes
<input checked="" type="radio"/>	7. Does the shaft require T.I.R in Lathe to identify additional repairs?	(No) No
<input checked="" type="radio"/>	8. Does Shaft Have Visible Damage?	(No) No
<input checked="" type="radio"/>	9. Assembled Shaft Runout	0.001 Inches
<input checked="" type="radio"/>	10. Assembled Shaft End Play	inches

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11. Air Gap Variation <10%		
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. Stator Temperature Detector Rating and Function		
Quantity	Rating	Quantity Passed
Na		
17. Bearing Temperature Detector Rating and Function		
Quantity	Rating	Quantity Passed
Na		
18. Frame Condition		
19. Fan Condition		(P) Pass
20. Broken or Missing Components		yes
Missing two bearing cap bolts		
<b>Initial Electrical Inspection</b>		
21. Insulation Resistance/Megger		Megohms
22. Winding Resistance		
1-2	1-3	2-3
23. Perform Surge Test		(F) Fail
24. Number of Stator Slots		36
25. Stator Condition		rewind
26. Stator Thermistors/Ohms		
Na		
27. Stator Overloads/Ohms		
Na		
<b>Mechanical Inspection</b>		
28. Drive End Bearing Brand		fag
29. Drive End Bearing Number-		6207 c3
30. Drive End Bearing Qty.		1
31. Drive End Bearing Type		(Ball) Ball Bearing
32. Drive End Lubrication Type		(Grease) Grease Lubricated
33. Drive End Bearing Insulation or Grounding Device?		
34. Drive End Wavy Washer/Snap-Ring Other Retention Device?		bearing cap
35. Drive End Bearing Condition		worn
36. Opposite Drive End Bearing Brand		fag
37. Opposite Drive End Bearing Number-		6205 c3
38. Opposite Drive End Bearing Qty.		1
39. Opposite Drive End Bearing Type		(Ball) Ball Bearing
40. Opposite Drive End Lubrication Type		(Grease) Grease Lubricated
41. Opposite Drive End Bearing Insulation or Grounding Device?		
42. Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?		wavy washer
43. Opposite Drive End Bearing Condition		worn
44. Drive End Seal		

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45. Opposite Drive End Seal		
<b>Rotor Inspection</b>		
46. Rotor Type/Material	(Squirrel Aluminum) Squirrel Cage Aluminum Die Cast	
47. Growler Test	(Pass) Pass	
48. Number of Rotor Bars	27	
49. Rotor Condition		
50. List the Parts needed for the Repair Below 6207 c3 6205 c3 Pump seal Rewind Machine work		
51. Signature of Technician that Disassembled Motor	Trevor Hall	
		
<b>Mechanical Fits- Rotor</b>		
52. Shaft Runout	0.001 inches	
53. Rotor Runout		
Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing
Na		
54. Coupling Fit Closest to Bearing Housing		
0 Degrees	90 Degrees	120 Degrees
0.8735000000000001	0.8735000000000001	0.8735000000000001
55. Coupling Fit Closest to the end of the Shaft		
0 Degrees	60 Degrees	120 Degrees
0.874	0.874	0.874
56. Drive End Bearing Shaft Fit		
0 Degrees	60 Degrees	120 Degrees
1.3783	1.3783	1.3783
57. Drive End Bearing Shaft Fit Condition	(P) Pass	
58. Opposite Drive End Bearing Shaft Fit		
0 Degrees	60 Degrees	120 Degrees
0.9846	0.9846	0.9846
59. Opposite Drive End Bearing Shaft Fit Condition	(P) Pass	
60. Shaft Air Seal Fits		
Drive End Air Seal	Opposite Drive End Air Seal	
Na		
<b>Mechanical Fits- Bearing Housings</b>		
61. Drive End - Endbell Bearing Fit		
0 Degrees	60 Degrees	120 Degrees
2.8352	2.8352	2.8352
62. Drive End - Endbell Bearing Fit Condition	(P) Pass	

63.	Opposite Drive End - Endbell Bearing Fit		
	0 Degrees	60 Degrees	120 Degrees
	2.0483	2.0483	2.0483
64.	Opposite Drive End - Endbell Bearing Fit Condition		(F) Fail
	Sleeve. Pitted		
65.	Bearing Cap Condition		
	Drive End Bearing Cap	Opposite Drive End Bearing Cap	
	pass		
66.	End Bell Air Seal Fits		
	Drive End Air Seal	Opposite Drive End Air Seal	
	Pass		
67.	List Machine Work Needed Below		
	Sleeve opposite drive endbell. Sleeve and broach impellor shaft fit. Turn down impellor ring. Sleeve pump bowl ring.		
68.	Technician		Trevor Hall
			
<b>Root Cause of Failure</b>			
69.	Failure locations		
	Windings, pump seal, bearings, impellor, pump bowl and endbell.		
70.	Root cause of failure		
	Improper installation.		
<b>Dynamic Balance Report</b>			
71.	Rotor Weight and Balance Grade		
	Rotor Weight	Balance Grade	
72.	Initial Balance Readings		
	Drive End	Opposite Drive End	
73.	Final Balance Readings		
	Drive End	Opposite Drive End	
74.	Technician		
<b>Rewind</b>			
75.	Core Test Results - Watts loss per Pound		
	Pre-Burnout	Post Burnout	
76.	Core Hot Spot Test		
	Pre-Burnout	Post-Burnout	
77.	Post Rewind Electrical Test- Insulation Resistance		Megohms
78.	Post Rewind Polarization Index		Polarization Index



79. Post Rewind Winding Resistance

1-2

1-3

2-3

Date	Tests	Trending
4/26/2024 2:42...	480V w/o...	T... PASS
4/26/2024 2:37...	230V w/o...	T... C...
Test Date	4/30/2024	4/26/2024
Test Time	11:51:42 AM	2:42:05 PM
Test Type	21.1	21.1
IR Temp Com...	Thermoplastic	Thermoplastic
Resist Status	PASS	MAX R Range...
Bal L1 (Ohms)		No Test
Bal L2 (Ohms)		
Bal L3 (Ohms)		
L1-L2 (Ohms)	8.437 Corr: 8.5...	901.0 Corr: 90...
L2-L3 (Ohms)	8.435 Corr: 8.5...	901.0 Corr: 90...
L3-L1 (Ohms)	8.432 Corr: 8.5...	8.501 Corr: 8.6...
Max Delta R %	0.074	147.892
Coil 1 (Ohms)	12.653 Corr: 1...	1796.8 Corr: 1...
Coil 2 (Ohms)	12.645 Corr: 1...	1796.8 Corr: 1...
Coil 3 (Ohms)	12.636 Corr: 1...	8.516 Corr: 8.6...
Nameplate	Application	Results Summary

Date	Tests	Trending
4/26/2024 2:42...	480V w/o...	T... PASS
4/26/2024 2:37...	230V w/o...	T... C...
Test Date	4/30/2024	4/26/2024
Test Time	11:51:42 AM	2:42:05 PM
Test Type	21.1	21.1
IR Temp Com...	Thermoplastic	Thermoplastic
Resist Status	PASS	MAX R Range...
Bal L1 (Ohms)		No Test
Bal L2 (Ohms)		
Bal L3 (Ohms)		
L1-L2 (Ohms)	8.437 Corr: 8.5...	901.0 Corr: 90...
L2-L3 (Ohms)	8.435 Corr: 8.5...	901.0 Corr: 90...
L3-L1 (Ohms)	8.432 Corr: 8.5...	8.501 Corr: 8.6...
Max Delta R %	0.074	147.892
Coil 1 (Ohms)	12.653 Corr: 1...	1796.8 Corr: 1...
Coil 2 (Ohms)	12.645 Corr: 1...	1796.8 Corr: 1...
Coil 3 (Ohms)	12.636 Corr: 1...	8.516 Corr: 8.6...
Megohm Stat...	PASS	No Test
Volts (V)	504	
I(μA)	0.1182	
Resist	4265	
At 40°C	1151	
PI Status	No Test	No Test
Volts (V)		
DIA Ratio		
PI Ratio		
DC Status	PASS	No Test
Test Time	Gen. Voltage	No Test
Nameplate	Application	Results Summary

80. Post Rewind Surge Test

(Pass) Pass

Date	Tests	Trending
4/26/2024 11:51...	480V w/o...	T... PASS
4/26/2024 2:42...	480V w/o...	T... C...
4/26/2024 2:37...	230V w/o...	T... C...
Test Date	4/30/2024	4/26/2024
Test Time	11:51:42 AM	2:42:05 PM
Test Type	Step-Voltage	
Volts (V)	2000	
I(μA)	0.5475	
Resist	3653	
At 40°C	986	
Surge Status	PASS	No Test
Peak Volt(V) L1	2020	No Test
Peak Volt(V) L2	2000	
Peak Volt(V) L3	2040	
Max P-P EAR...	1.0/1.3/1.1	
EAR 1-2/2-3/...	3/1/1	
Nameplate	Application	Results Summary

81. Post Rewind Hi-Pot

micro-amps

Pass

82. Technician



Mechanical Fits- Bearing Housings - Post Repair

83. Drive End - Endbell Bearing Fit Post Repair

0 Degrees

60 Degrees

120 Degrees

84. Opposite Drive End - Endbell Bearing Fit Post Repair		
0 Degrees	60 Degrees	120 Degrees
2.0472	2.0472	2.0472
		
85. Bearing Cap Condition Post Repair		
Drive End Bearing Cap	Opposite Drive End Bearing Cap	
86. End Bell Air Seal Fits Post Repair		
Drive End Air Seal	Opposite Drive End Air Seal	
87. End Bell Repair Sign-off		
Assembly		
88. QC Check All Parts for Cleanliness Prior to Assembly		RW
		

89. Photograph All Major Components prior to assembly

(Complete) Complete



90. Final Insulation Resistance Test	Megohms	
Passed hi pot		
91. Assembled Shaft Endplay	inches	
92. Assembled Shaft Runout	inches	
93. Test Run Voltage		
Volts	Volts	Volts
458	457	458



Co witness CRW

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94. Test Run Amperage

Amps	Amps	Amps
1.9	2	1.9



95. Drive End Vibration Readings - Inches Per Second

Horizontal	Vertical	Axial
------------	----------	-------

96. Opposite Drive End Vibration Readings - Inches Per Second

Horizontal	Vertical	Axial
------------	----------	-------

97. Ambient Temperature - Fahrenheit

98. Drive End Bearing Temps - Fahrenheit

5 Minutes	10 Minutes	15 Minutes
-----------	------------	------------

99. Opposite Drive End Bearing Temps - Fahrenheit

5 Minutes	10 Minutes	15 Minutes
-----------	------------	------------

100. Document Final Condition with Pictures after paint





101. Final Pics and QC Review

RW



Co witness DM



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

## Field Service Ticket

FolderID: 102599  
FormID: 19675357

**LITTLE ROCK ZOO**  
1 ZOO DRIVE  
LITTLE ROCK, AR 72205

Priorities Found:

### Job Information

1. Hi-Speed Job Number
2. Asset Type
3. Make



4. Model
5. Serial Number
6. Customer Asset ID/Asset Name

### Service Call Details

7. Service Objectives
8. Services Performed
9. Service Technician Recommendations

### Approval Signatures

10. Service Technician Signature
11. Customer Signature

**Colden Dostal**

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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.
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