



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

LR Motor Shop Repairs

Job Number 103691

Prepared for Community Water System (12207)

299 Lakeshore Drive
Greers Ferry AR 72067

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

AC Inspection as Found
Community Water System (12207)
299 Lakeshore Drive
Greers Ferry, AR 72067

FolderID: 103691
FormID: 22095521

AC Inspection - Rev. 2

Location: LR MOTORSHOP
Serial Number: ID: L1082001930-001R02
Description: 400HP EMERSON 1780RPM

Hi-Speed Job Number:	103691
Manufacturer:	Emerson
Spec/ID #:	L1082001930-001R02
HP/kW:	400 (HP)
RPM:	1780 (RPM)
Frame:	447TPA
Voltage:	460
Current:	452 (Amps)
Phase:	Three
Hz:	60 (Hz)
Service Factor:	1.15
Enclosure:	WR1
J-box Included:	None
Coupling/Sheave:	None
Bearing RTDs:	No
Stator RTDs:	No
Repair Stage:	Final
Rewind:	Yes
Shaft Machined Fit Repairs Required:	No
Bearing Housing Machined Fit Repairs Required:	No
Heaters:	Yes
Winding Type :	Random Wound
Bearing Type:	Rolling Element

Priorities Found: ● 1 - High ● 8 - Good

Overall Condition

1. Report Date

10/31/2024

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1.0

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			
Serviceable			
Initial Mechanical/Electrical			
5.	Does Shaft Turn Freely?	(Y) Yes	
6.	Does the shaft require T.I.R in Lathe to identify additional repairs?	(No) No	
7.	Does Shaft Have Visible Damage?	(No) No	
8.	Assembled Shaft Runout	Inches	
9.	Assembled Shaft End Play	inches	
10.	Air Gap Variation <10%		
11.	Lead Condition	(P) Pass	
12.	Lead Length	29 Inches	
13.	Does it have Lugs?, If so what is the Stud Size?	(Yes) Yes	
	1/2 stud		
14.	Lead Numbers	123-789	
15.	Frame Condition	pass	
16.	Fan Condition	(N) NA	
17.	Heater Quantity, Ratings		
	Quantity	Volts/Watts	Pass/Fail
	Na		
18.	Broken or Missing Components		
Initial Electrical Inspection			
19.	Insulation Resistance/Megger	Megohms	
	10K		
20.	Winding Resistance		
	1-2	1-3	2-3
	Na		
21.	Perform Surge Test	(F) Fail	
22.	Number of Stator Slots	72	



24. Stator Thermistors/Ohms

na

25. Stator Overloads/Ohms

yes .5 ohms

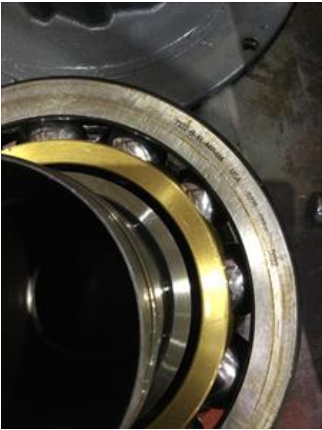
Mechanical Inspection

26. Drive End Bearing Brand

FAG

27. Drive End Bearing Number-

7322-B-XL-MP-UA



28. Drive End Bearing Qty.

1

29. Drive End Bearing Type

(Thrust) Thrust

30. Drive End Lubrication Type

(Oil) Oil Lubricated

31. Drive End Bearing Insulation or Grounding Device?

none

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

Na

33. Drive End Bearing Condition

Normal wear



34. Opposite Drive End Bearing Brand

FAG

35. Opposite Drive End Bearing Number-

6215-2Z-C3



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?

snap ring

41. Opposite Drive End Bearing Condition



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Normal wear

42. Drive End Seal	pass
43. Opposite Drive End Seal	pass

Rotor Inspection






44. Rotor Type/Material (Squirrel Aluminum) Squirrel
Cage Aluminum Die Cast



45. Growler Test	(Pass) Pass
46. Number of Rotor Bars	58
47. Rotor Condition	pass
48. List the Parts needed for the Repair Below -7322 Thrust bearing 1-6215	
49. Signature of Technician that Disassembled Motor	RW

[Handwritten Signature]

Mechanical Fits- Rotor

50. Shaft Runout			inches
 Na			
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	
4.3311	4.3311	4.3311	
 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	
2.953	2.953	2.953	
57. Opposite Drive End Bearing Shaft Fit Condition			(P) Pass
58. Shaft Air Seal Fits			
Drive End Air Seal	Opposite Drive End Air Seal		
pass			
Mechanical Fits- Bearing Housings			
59. Drive End - Endbell Bearing Fit			
0 Degrees	60 Degrees	120 Degrees	
9.449199999999999	9.449199999999999	9.449199999999999	




60. Drive End - Endbell Bearing Fit Condition			(P) Pass
61. Opposite Drive End - Endbell Bearing Fit			
0 Degrees	60 Degrees	120 Degrees	
5.1191	5.1191	5.1191	



62. Opposite Drive End - Endbell Bearing Fit Condition			(P) Pass
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		
pass			

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65. List Machine Work Needed Below	
None	
66. Technician	RW
	
Co sign CRW	
Root Cause of Failure	
67. Failure locations	
Winding	
68. Root cause of failure	
Turn to turn short	
Dynamic Balance Report	
69. Rotor Weight and Balance Grade	
Rotor Weight	Balance Grade
	1.0
70. Initial Balance Readings	
Drive End	Opposite Drive End



71. Final Balance Readings

Drive End

Opposite Drive End



72. Technician

Shon Jones

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

Assembly

81. QC Check All Parts for Cleanliness Prior to Assembly

TH

82. Photograph All Major Components prior to assembly

(Complete) Complete





83. Final Insulation Resistance Test		12,150 Megohms
🗨 Passed the HI POT		
84. Assembled Shaft Endplay		inches
🗨 Na		
85. Assembled Shaft Runout		inches
🗨 Na		
86. Test Run Voltage		
Volts	Volts	Volts
458	456	459

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<div> <div></div> <div>Co sign TRH</div> </div>		
87. Test Run Amperage		
Amps	Amps	Amps
124.7	120	119.9
88. Drive End Vibration Readings - Inches Per Second		
Horizontal	Vertical	Axial
0.03	0.03	0.04
89. Opposite Drive End Vibration Readings - Inches Per Second		
Horizontal	Vertical	Axial
<div> <div></div> <div>Na</div> </div>		
90. Ambient Temperature - Fahrenheit		
<div> <div></div> <div>Na</div> </div>		
91. Drive End Bearing Temps - Fahrenheit		
5 Minutes	10 Minutes	15 Minutes
<div> <div></div> <div>Na</div> </div>		
92. Opposite Drive End Bearing Temps - Fahrenheit		
5 Minutes	10 Minutes	15 Minutes
<div> <div></div> <div>Na</div> </div>		
93. Document Final Condition with Pictures after paint		



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A large, stylized handwritten signature in black ink, appearing to be 'RW' or similar, written across the top of the page.

 TRH



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

Field Service Ticket

FolderID: 103691
FormID: 22303183

Community Water System (12207)
299 Lakeshore Drive
Greers Ferry, AR 72067

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

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

AC Random Coil Rewind Report

FolderID: 103691
FormID: 22145175

Community Water System (12207)

299 Lakeshore Drive
Greers Ferry, AR 72067

LR MOTORSHOP
Winding

Priorities Found: ● 2 - High ● 5 - Good


General

1. Job Number	103691
2. Report Date	11/01/2024
3. Customer	Community Water

Stator Winding

4. Core Length	16.125 "
■ 5.5 opp conn 6 Conn end	
5. Core ID	12.375 "
6. Back Iron Depth	1.25 "
7. Slot Depth	1.75 "
8. Tooth Width	0.265 "
9. Number of Vents	0
10. Vent Width	
● 11. Before Burnout Core loss	(P) Pass
12. Flux Before Burnout	
13. Watts before burnout	
14. Watts loss per lb. before burnout	1.563 W/lbs.
● 15. After Burnout Core Loss	(P) Pass
16. Flux After burnout	
17. Watts After Burnout	Watts
18. Watts loss per lb After Burnout	1.6 W/lbs.
● 19. Core Iron Condition	(P) Pass
● 20. RTD's	(N) No
21. RTD's Reading	
● 22. Motor Heaters	(N) No
23. Heater Qty.	0
24. Heater Voltage	Volts
25. Heater Wattage	
26. Thermistors	
■ Klixon	
27. Number of Poles	4
28. Slots	72
29. Number of Coils	72
30. Coil Weight	

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31. Lead Markings <i>1-3 7-9 PWS</i>	
32. Grouping <i>12g 4c</i>	
33. Multiple Wires	(Y) Yes
34. Wire Size <i>12 #16</i>	
35. Turns per coil	7
36. Pitch 1 to:	16
37. Connection <i>4 delta PWS</i>	
38. Lead Length	28 "
39. Lead Size <i>6 @2/0</i>	
40. Number of Leads	6
41. Megger Reading After Rewind	7482 Mohms
42. Coil Machine Slot	
43. Coil Machine Tip	
44. Coil Machine Pitch	
45. Hi Pot Reading After Rewind	0.0882 Ua
46. Surge Pattern After Rewind	(P) Pass
47. Service Technician	
<i>300lbs copper wire</i> <i>#15 awg 150 lbs</i> <i>#16 awg 120 lbs</i> <i>#17 awg 30 lbs</i> <i>30' #2 1000v lead wire</i>	







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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.
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.