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Motor Shop Repairs

**Job Number 98340**

Prepared for Central AR Water- Lake Maumelle(10195-08)

10629 Hwy 300  
Roland AR 72135

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AC Recondition Repair Report

1.0

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## AC Recondition Repair Report

FolderID: 98340  
FormID: 10870449

Central AR Water- Lake Maumelle  
(10195-08)  
10629 Hwy 300  
Roland, AR 72135

Priorities Found: ● 2 - High ● 11 - Good

### General

1. Job Number	98340
2. Report Date	5/6/2021
3. Customer	ARKANSAS CENTRAL WATER



### Name Plate Information

4. Manufacturer	G.E.
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5. Model	5K6268XH1A
6. Serial Number	CGJ324101
7. Horsepower	125
8. KW	
9. Volts	460
10. Amps	144
11. RPM	1770
12. Frame	
13. Enclosure	WPI
14. Cycles	60
15. Phase	3
16. Service Factor	1.15
17. Motor Mount Position	
<b>Initial Inspection</b>	
18. Number of Leads	6
19. Lead Length	15 Inches
20. Lead Size	4
21. Lead Condition	(P) Pass



22. Lead Markings	11 22 33
23. Lug Size, Condition, and Type	
24. Winding RTD's	
25. Winding Rtd's Condition	

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26. Shaft Run Out	0.001
27. Does Shaft Turn Freely	yes
28. Does Shaft Have Visible Damage	no
29. Bearing Rtd's	
30. Bearing Rtd's Condition	
31. Contamination <i>Dirt</i>	
32. Frame Condition	(P) Pass



33. Fan Condition	
34. Broken or missing components	
<b>Initial Electric Test</b>	
35. Resistance to Ground	
36. Winding Resistance 1-2	
37. Winding Resistance 2-3	
38. Winding Resistance 1-3	
39. Resistive Imbalance	
40. Hi-Pot	Ua
41. Surge Test	(F) Fail
42. Stator Condition	rewind



43. Failure Location	opposite connection end
<b>Initial Rotor Inspection</b>	
44. Rotor Type	cast aluminum

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45. Air Gap <10% Variation	
46. Number of Rotor Bars	76
47. Number of Broken Rotor Bars	0
● 48. Growler Test	(P) Pass
● 49. Rotor Condition	(P) Pass
<b>Mechanical Inspection</b>	
50. Bearing Manufacture	fag
51. Bearing DE Size	7222b



52. Bearing DE Type	thrust
53. DE Bearing Qty.	1
54. Bearing ODE Size	6215 2Z
55. Bearing ODE Type	ball



56. ODE Bearing Qty.	1
57. Insulated Bearing	
58. Lubrication Type	oil and grease
● 59. Grease Condition	(F) Fail
● 60. Bearing Retainers	(Y) Yes

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61. Shaft Grounding Device	
62. DE Seal	
63. DE Seal Type/Size	
64. ODE Seal	
65. ODE Seal Type/Size	
<b>Root Cause of Failure</b>	
66. Component Failure	windings, bearings
67. Cause of Failure <i>Debris</i>	
68. Comments	
69. Service Technician	
<b>Machine Fit Inspection Report</b>	
70. Shaft Run Out	(P) Pass
71. Initial Shaft Run Out	0.001 "
72. Final Shaft Run Out	
73. DE Bearing Shaft Fit	(P) Pass
74. DE Initial Shaft Bearing Fit Size 1	4.3318 "
75. DE Initial Shaft Bearing Fit Size 2	4.3317 "
76. DE Initial Shaft Bearing Fit Size 3	4.3317 "
77. DE Finial Shaft Bearing Fit Size 1	
78. DE Finial Shaft Bearing Fit Size 2	
79. DE Finial Shaft Bearing Fit Size 3	
80. ODE Bearing Shaft Fit	(P) Pass
81. ODE Initial Shaft Bearing Fit Size 1	2.9533 "
82. ODE Initial Shaft Bearing Fit Size 2	2.9533 "
83. ODE Initial Shaft Bearing Fit Size 3	2.9533 "
84. ODE Finial Shaft Bearing Fit Size 1	
85. ODE Finial Shaft Bearing Fit Size 2	
86. ODE Finial Shaft Bearing Fit Size 3	
87. DE Air Seal Shaft Fit	
88. DE Initial Air Seal Shaft Size	
89. DE Final Air Seal Shaft Size	
90. ODE Air Seal Shaft Fit	
91. ODE Initial Air Seal Shaft Size	

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92. ODE Final Air Seal Shaft Size	
93. DE Endbell Fit	(P) Pass



94. DE Initial Endbell Fit Size 1	9.4499 "
95. DE Initial Endbell Fit Size 2	9.4499 "
96. DE Initial Endbell Fit Size 3	9.4499 "
97. DE Final Endbell Fit Size 1	
98. DE Final Endbell Fit Size 2	
99. DE Final Endbell Fit Size 3	
100. DE Endbell Fit Insulated	
101. DE Endbell Air Seal Fit	
102. Initial Endbell Air Seal Fit Size	
103. Final Endbell Air Seal Fit Size	
104. ODE Endbell Fit	(P) Pass



105. ODE Initial Endbell Fit Size 1	5.1186 "
106. ODE Initial Endbell Fit Size 2	5.1184 "
107. ODE Initial Endbell Fit Size 3	5.1184 "
108. ODE Final Endbell Fit Size 1	
109. ODE Final Endbell Fit Size 2	
110. ODE Final Endbell Fit Size 3	
111. ODE Endbell Fit Insulated	
112. ODE Endbell Air Seal Fit	
113. ODE Initial Endbell Seal Fit Size	

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114. ODE Finial Endbell Seal Fit Size	
115. Foot Flatness	
116. Foot Condition	
● 117. Flange Condition	(P) Pass
118. Service Technician	
<b>Balancing Report</b>	
119. Balance Type	
120. Balance Operating Speed	
121. Start Left End	
122. Start Right End	
123. Balancing Specification	
124. Finish Left End	
125. Finish Right End	
126. Service Technician	
<b>Assembly and Final Test</b>	
127. Meggar Testing Reading	
128. Surge Test	
129. Hi-Pot	
130. Winding Resistance 1-2	
131. Winding Resistance 2-3	
132. Winding Resistance 1-3	
133. Test Run Voltage Phase A	
134. Test Run Amps A	
135. Test Run Voltage Phase B	
136. Test Run Amps B	
137. Test Run Voltage Phase C	
138. Test Run Amps C	
139. DE Horizontal Vibration Reading	
140. DE Vertical Vibration Reading	
141. DE Axial Vibration Reading	
142. ODE Horizontal Vibration Reading	
143. ODE Vertical Vibration Reading	
144. ODE Axial Vibration Reading	
145. Ambient Temp at start of Test Run	
146. Temp at 5 minutes	
147. Temp at 10 minutes	
148. Temp at 15 minutes	
149. Temp at 20 minutes	
150. Temp at 25 minutes	
151. Temp at 30 minutes	
152. Temp at 35 minutes	
153. Temp at 40 minutes	
154. Temp at 45 minutes	
155. Temp at 50 minutes	
156. Temp at 55 minutes	
157. Temp at 60 minutes	
158. Motor Paint	

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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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