



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

Motor Shop Repairs

Job Number 97845

Prepared for Community Water System (12207)

299 Lakeshore Drive
Greers Ferry AR 72067

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AC Recondition Repair Report

1.0

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1.3



5. Model	
6. Serial Number	MN72C7430023
7. Horsepower	50 HP
8. KW	37 KW
9. Volts	230460 Volts
10. Amps	11758.5 Amps
11. RPM	1180 RPM
12. Frame	365T
13. Enclosure	TEFC
14. Cycles	60 HZ

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15. Phase	3 PH
16. Service Factor	1.15
17. Motor Mount Position	
Initial Inspection	
18. Number of Leads	12



19. Lead Length	7 Inches
20. Lead Size	
21. Lead Condition	(P) Pass
22. Lead Markings	T1-T12
23. Lug Size, Condition, and Type	



24. Winding RTD's	
25. Winding Rtd's Condition	
26. Shaft Run Out	
27. Does Shaft Turn Freely	Yes
28. Does Shaft Have Visible Damage	no
29. Bearing Rtd's	
30. Bearing Rtd's Condition	
31. Contamination	
Yes	



32. Frame Condition

(P) Pass



33. Fan Condition

(P) Pass



34. Broken or missing components

Initial Electric Test

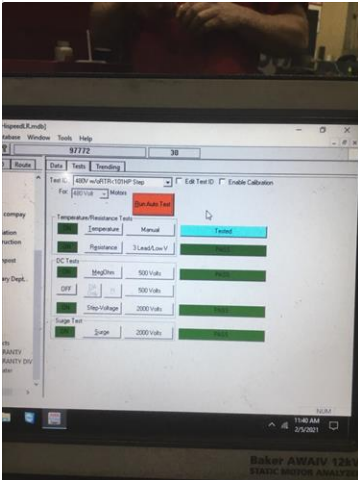
- 35. Resistance to Ground
- 36. Winding Resistance 1-2
- 37. Winding Resistance 2-3
- 38. Winding Resistance 1-3
- 39. Resistive Imbalance

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40. Hi-Pot

● 41. Surge Test

(P) Pass



42. Stator Condition

good



43. Failure Location



Initial Rotor Inspection

44. Rotor Type

squirrel cage

45. Air Gap <10% Variation

46. Number of Rotor Bars

56



47. Number of Broken Rotor Bars

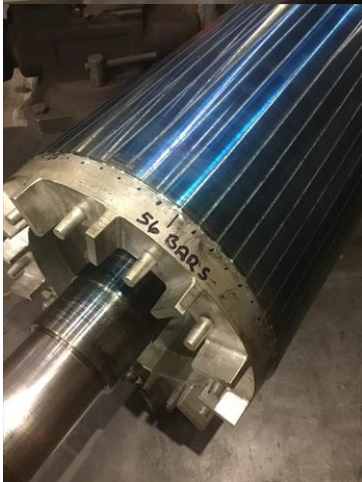
0

48. Growler Test

(P) Pass

49. Rotor Condition

(P) Pass



Mechanical Inspection

50. Bearing Manufacture

non

51. Bearing DE Size

6313



52. Bearing DE Type

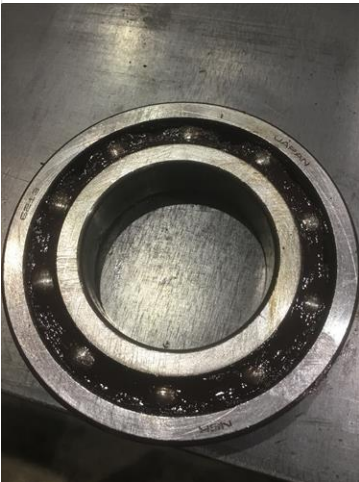
regular ball bearing

53. DE Bearing Qty.

1

54. Bearing ODE Size

6213



55. Bearing ODE Type

regular ball bearing

56. ODE Bearing Qty.

1

57. Insulated Bearing

no

58. Lubrication Type

grease

● 59. Grease Condition

(F) Fail

● 60. Bearing Retainers

(Y) Yes



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61. Shaft Grounding Device	(NA) Not Applicable
62. DE Seal	(NA) Not Applicable
63. DE Seal Type/Size	
64. ODE Seal	(NA) Not Applicable
65. ODE Seal Type/Size	

Root Cause of Failure

66. Component Failure

both bearings show extensive signs of fluting



67. Cause of Failure

Fluting in both bearings caused premature bearing failure.

68. Comments

Recommend shaft grounding device to alleviate the fluting in both bearings.

69. Service Technician

Terrence Holland

Machine Fit Inspection Report

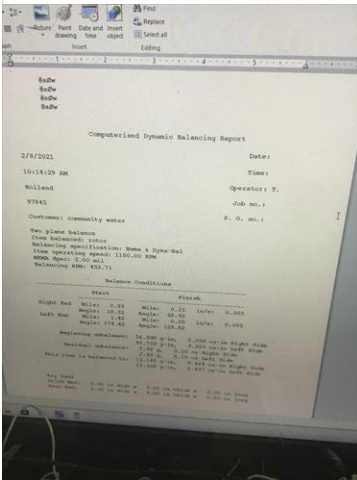
- | |
|--|
| 70. Shaft Run Out |
| 71. Initial Shaft Run Out |
| 72. Final Shaft Run Out |
| 73. DE Bearing Shaft Fit |
| 74. DE Initial Shaft Bearing Fit Size 1 |
| 75. DE Initial Shaft Bearing Fit Size 2 |
| 76. DE Initial Shaft Bearing Fit Size 3 |
| 77. DE Finial Shaft Bearing Fit Size 1 |
| 78. DE Finial Shaft Bearing Fit Size 2 |
| 79. DE Finial Shaft Bearing Fit Size 3 |
| 80. ODE Bearing Shaft Fit |
| 81. ODE Initial Shaft Bearing Fit Size 1 |
| 82. ODE Initial Shaft Bearing Fit Size 2 |
| 83. ODE Initial Shaft Bearing Fit Size 3 |
| 84. ODE Finial Shaft Bearing Fit Size 1 |
| 85. ODE Finial Shaft Bearing Fit Size 2 |

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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
92. ODE Final Air Seal Shaft Size
93. DE Endbell Fit
94. DE Initial Endbell Fit Size 1
95. DE Initial Endbell Fit Size 2
96. DE Initial Endbell Fit Size 3
97. DE Final Endbell Fit Size 1
98. DE Finial 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. Finial Endbell Air Seal Fit Size
104. ODE Endbell Fit
105. ODE Initial Endbell Fit Size 1
106. ODE Initial Endbell Fit Size 2
107. ODE Initial Endbell Fit Size 3
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
114. ODE Finial Endbell Seal Fit Size
115. Foot Flatness
116. Foot Condition
117. Flange Condition
118. Service Technician
Balancing Report

119. Balance Type

nema standard



120. Balance Operating Speed

453 RPM

121. Start Left End

1.42 Mills

122. Start Right End

0.93 Mills

123. Balancing Specification

124. Finish Left End

0.2 Mills

125. Finish Right End

0.21 Mills

126. Service Technician

Terrence Holland

Assembly and Final Test

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

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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
159. Service Technician



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.
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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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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.
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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.
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