



AC Recondition Repair Report

FolderID: 99116
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Central Arkansas Water-Wilson
(10195-01)
Central Arkansas Water Wilson
Little Rock, AR 72212

Priorities Found: ● 13 - Good

General

| | |
|----------------|------------------------|
| 1. Job Number | 99116 |
| 2. Report Date | 12/14/2021 |
| 3. Customer | Central Arkansas Water |

Name Plate Information



| | | |
|-----------------|---------|----|
| 4. Manufacturer | Pentair | P5 |
|-----------------|---------|----|



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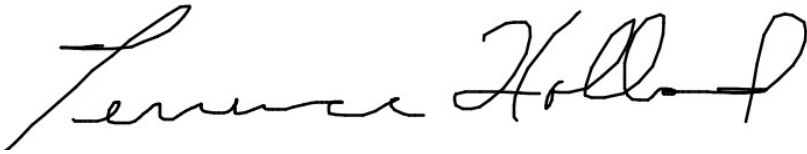


| | |
|-----------------------------------|------------------|
| 5. Model | H4H750M3-4 |
| 6. Serial Number | 10617371 |
| 7. Horsepower | 7.5 |
| 8. KW | |
| 9. Volts | 230 |
| 10. Amps | 21.9 |
| 11. RPM | 1750 |
| 12. Frame | |
| 13. Enclosure | Submersible Pump |
| 14. Cycles | 60 |
| 15. Phase | 3 |
| 16. Service Factor | 1.2 |
| 17. Motor Mount Position | |
| Initial Inspection | |
| 18. Number of Leads | |
| 19. Lead Length | |
| 20. Lead Size | |
| 21. Lead Condition | |
| 22. Lead Markings | |
| 23. Lug Size, Condition, and Type | |
| 24. Winding RTD's | |
| 25. Winding Rtd's Condition | |
| 26. Shaft Run Out | |

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| | | |
|---------------------------------|---|---|
| 27. | Does Shaft Turn Freely | |
| 28. | Does Shaft Have Visible Damage | |
| 29. | Bearing Rtd's | |
| 30. | Bearing Rtd's Condition | |
| 31. | Contamination <i>Water</i> | |
| 32. | Frame Condition | (P) Pass |
| 33. | Fan Condition | (NA) Not Applicable |
| 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 | |
| 40. | Hi-Pot | |
| 41. | Surge Test <i>Copper balls inside stator</i> | (NA) Not Applicable |
| 42. | Stator Condition | |
| 43. | Failure Location | |
| Initial Rotor Inspection | | |
| 44. | Rotor Type | squirrel cage laminate |
| 45. | Air Gap <10% Variation | |
| 46. | Number of Rotor Bars | |
| 47. | Number of Broken Rotor Bars | 0 |
| 48. | Growler Test | (P) Pass |
| 49. | Rotor Condition | (P) Pass |
| Mechanical Inspection | | |
| 50. | Bearing Manufacture | ntn |
| 51. | Bearing DE Size | 7308 |
| 52. | Bearing DE Type | dbl wide |
| 53. | DE Bearing Qty. | 1 |
| 54. | Bearing ODE Size | 6206 |
| 55. | Bearing ODE Type | regular ball bearing |
| 56. | ODE Bearing Qty. | 1 |
| 57. | Insulated Bearing | no |
| 58. | Lubrication Type | oil |
| 59. | Grease Condition | (NA) Not Applicable |
| 60. | Bearing Retainers | (NA) Not Applicable |
| 61. | Shaft Grounding Device | (NA) Not Applicable |
| 62. | DE Seal | (Y) Yes |
| 63. | DE Seal Type/Size | o.d 2.130. shaft: 1.500. |
| 64. | ODE Seal | (Y) Yes |
| 65. | ODE Seal Type/Size | o.d 2.130. shaft: 1.500 |
| Root Cause of Failure | | |
| 66. | Component Failure | wavy washer broke and impacted the windings |

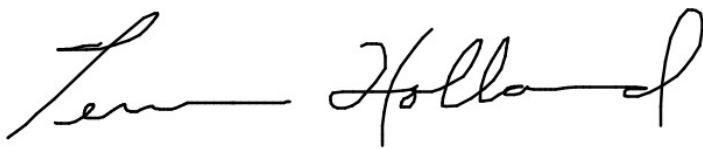
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|---|---|-------------------|
| 67. | Cause of Failure <i>Windings shorted</i> | |
| 68. | Comments <i>Rewind stator, repair seal surfaces, replace seals and o-rings</i> | |
| 69. | Service Technician | Terrence. Holland |
|  | | |

Machine Fit Inspection Report

| | | |
|------|--------------------------------------|---------------------|
| 70. | Shaft Run Out | |
| 71. | Initial Shaft Run Out | |
| 72. | Final Shaft Run Out | |
| 73. | DE Bearing Shaft Fit | (P) Pass |
| 74. | DE Initial Shaft Bearing Fit Size 1 | 1.575 " |
| 75. | DE Initial Shaft Bearing Fit Size 2 | 1.575 " |
| 76. | DE Initial Shaft Bearing Fit Size 3 | 1.575 " |
| 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 | 1.1812 " |
| 82. | ODE Initial Shaft Bearing Fit Size 2 | 1.1812 " |
| 83. | ODE Initial Shaft Bearing Fit Size 3 | 1.1812 " |
| 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 | |
| 92. | ODE Final Air Seal Shaft Size | |
| 93. | DE Endbell Fit | (P) Pass |
| 94. | DE Initial Endbell Fit Size 1 | 3.5434 " |
| 95. | DE Initial Endbell Fit Size 2 | 3.5435 " |
| 96. | DE Initial Endbell Fit Size 3 | 3.5435 " |
| 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 | (NA) Not Applicable |
| 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 | |

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| 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 | (NA) Not Applicable |
| 112. ODE Endbell Air Seal Fit | |
| 113. ODE Initial Endbell Seal Fit Size | |
| 114. ODE Finial Endbell Seal Fit Size | |
| ● 115. Foot Flatness | (P) Pass |
| ● 116. Foot Condition | (P) Pass |
| 117. Flange Condition | |
| 118. Service Technician | Terrence. Holland |
|  | |

Balancing Report

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|------------------------------|--|
| 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 | |

Assembly and Final Test

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| 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 |