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

# AC Recondition Repair Report

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**ARKANSAS INDUSTRIAL MACHINERY**
3804 N. NONA ST
NORTH LITTLE ROCK, AR 72118

Priorities Found: **1 - High** **7 - Good**

## General

| | | |
|---|---|---|
| 1. | Job Number | **99561** |
| 2. | Report Date | **03/25/2022** |
| 3. | Customer | **Arkansas Industrial Machinery** |

## Name Plate Information

| | | | |
|---|---|---|---|
| 4. | Manufacturer | **Siemens** | P5 |


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| | | |
|---|---|---|
| 5. | Model | **1LG6253-2AA99-Z** |
| 6. | Serial Number | **1622-5546-80** |
| 7. | Horsepower | **75** |
| 8. | KW | **55** |
| 9. | Volts | **460** |
| 10. | Amps | **84** |
| 11. | RPM | **3580** |
| 12. | Frame | **250M** |
| 13. | Enclosure | **TEFC** |
| 14. | Cycles | **60** |
| 15. | Phase | **3** |

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| | | | | |
|---|---|---|---|---|
| 16. | Service Factor | **1.14** | | |
| 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 | | | |
| 27. | Does Shaft Turn Freely | | | |
| 28. | Does Shaft Have Visible Damage | **no** | | |
| 29. | Bearing Rtd's | | | |
| 30. | Bearing Rtd's Condition | | | |
| 31. | Contamination | | | |
| 32. | Frame Condition | **(P) Pass** | | |
| 33. | Fan Condition | **(P) Pass** | | P109 |

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

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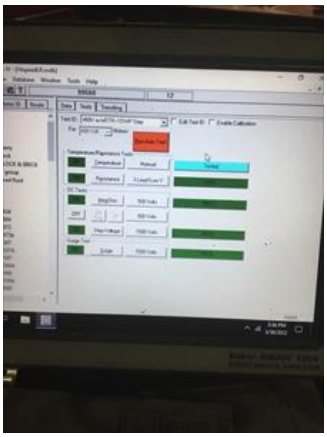
|---|---|---|---|
| 41. | Surge Test | **(P) Pass** | P58 |

*NOTE: Stator windings have what appear to be "popsicle sticks" in place of top sticks. However the Stator windings did test good. See photos below.*



| | | | |
|---|---|---|---|
| 42. | Stator Condition | | |
| 43. | Failure Location | | |

## Initial Rotor Inspection

| | | | |
|---|---|---|---|
| 44. | Rotor Type | **squirrel cage laminate** | P4 |

| | | |
|---|---|---|
| 45. | Air Gap <10% Variation | |
| 46. | Number of Rotor Bars | |
| 47. | Number of Broken Rotor Bars | **0** |
| 48. | Growler Test | |

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| | | | |
|---|---|---|---|
| 49. | Rotor Condition | **(P) Pass** | |

## Mechanical Inspection

| | | | |
|---|---|---|---|
| 50. | Bearing Manufacture | **skf** | P1 |

| | | | |
|---|---|---|---|
| 51. | Bearing DE Size | **215ec** | |
| 52. | Bearing DE Type | **NU** | P23 |

| | | | |
|---|---|---|---|
| 53. | DE Bearing Qty. | **1** | |
| 54. | Bearing ODE Size | **6215D** | P43 |

| | | | |
|---|---|---|---|
| 55. | Bearing ODE Type | **sealed** | P53 |

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| | | | | |
|---|---|---|---|---|
| | 56. | ODE Bearing Qty. | **1** | |
| | 57. | Insulated Bearing | **no** | |
| | 58. | Lubrication Type | **grease** | |
| ● | 59. | Grease Condition | **(F) Fail** | P74 |

*Dirty*

| | | | | |
|---|---|---|---|---|
| ● | 60. | Bearing Retainers | **(Y) Yes** | P80 |

| | | | |
|---|---|---|---|
| 61. | Shaft Grounding Device | **(NA) Not Applicable** | |

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| | | | |
|---|---|---|---|
| 62. | DE Seal | **(Y) Yes** | P86 |

| | | |
|---|---|---|
| 63. | DE Seal Type/Size | **yes provided by customer** |
| 64. | ODE Seal | **(Y) Yes** |
| 65. | ODE Seal Type/Size | P102 |

*Lip seal*

## Root Cause of Failure

| | | |
|---|---|---|
| 66. | Component Failure | |
| 67. | Cause of Failure | |
| 68. | Comments | |
| 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 | |

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| | |
|---|---|
| 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 |
| 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 |
| 120. | Balance Operating Speed |
| 121. | Start Left End |
| 122. | Start Right End |
| 123. | Balancing Specification |

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| | |
|---|---|
| 124. | Finish Left End |
| 125. | Finish Right End |
| 126. | Service Technician |
| **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 |
| 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 |

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