

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

> FolderID: 101773 FormID: 17696196

AC Inspection as Found Baldor Warranty Division

685 Mid America Blvd Hot Springs, AR 71913

| AC | Ins | pection | - Rev. | 2 |
|----|-----|---------|--------|---|
|----|-----|---------|--------|---|

Location: MOTOR SHOP LR

Serial Number:

Description: WARRANTY EVAL 50 HP WITH

TACH

| Hi-Speed Job Number: | 101773 |
|----------------------|--------------|
| Manufacturer: | Baldor |
| Spec/ID #: | 12G535Z279Z1 |
| Serial Number: | C2301261467 |
| HP/kW: | 50 (HP) |
| RPM: | 1775 (RPM) |
| Frame: | 326T |
| Voltage: | 230 / 460 |
| Current: | 40 / 20 |
| Phase: | Three |
| Hz: | 60 (Hz) |
| Service Factor: | 1.00 |
| Enclosure: | TEFC |
| J-box Included: | Complete |
| Coupling/Sheave: | None |
| Date Received: | 08/24/2023 |
| Repair Stage: | Final |
| | |

Priorities Found: 1 - High



4 - Good

Overall Condition

0

Report Date

P37 2. Nameplate Picture



Photos of all six sides of the machine.

P45



















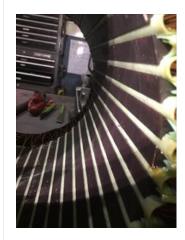


















4. Describe the Overall Condition of the Equipment as Received Serviceable

Initial Mechanical/Electrical



5. Does Shaft Turn Freely?

(Yes) Yes



| 7. | Assembled Shaft Runout | 0.001 Inches | |
|-----|--------------------------|--------------|-----|
| 8. | Assembled Shaft End Play | | |
| 9. | Air Gap Variation <10% | | |
| 10. | Lead Condition | (P) Pass | P56 |

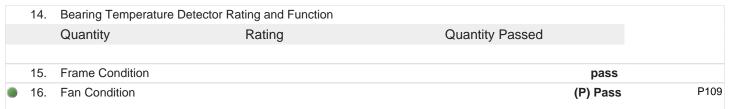


11. Lead Length12. Lead Numbers14 InchesP86



13. Stator Temperature Detector Rating and Function

Quantity Rating Quantity Passed





| 17. | Heater Quantity, Ratings | | | | |
|-------------|------------------------------|-------------|-----------|----------|-----|
| | Quantity | Volts/Watts | Pass/Fail | | |
| | | | | | |
| 18. | Broken or Missing Components | | | none | |
| Initial I | Electrical Inspection | | | | o |
| 19. | Insulation Resistance/Megger | | | | |
| 20. | Winding Resistance | | | | |
| | 1-2 | 1-3 | 2-3 | | |
| | | | | | |
| 2 1. | Perform Surge Test | | | (F) Fail | P58 |



| 22. | Number of Stator Slots | 48 | |
|-------|---------------------------|--------|--|
| 23. | Stator Condition | rewind | |
| 24. | Stator Thermistors/Ohms | | |
| 25. | Stator Overloads/Ohms | | |
| Mecha | nical Inspection | | |
| 26. | Drive End Bearing Brand | | |
| 27. | Drive End Bearing Number- | 6312 | |
| 28. | Drive End Bearing Qty. | 1 | |

| 29. | Drive End Bearing Type | | (Ball) Ball Bearing |
|-----|-----------------------------|-------------------------------------|----------------------------|
| 30. | Drive End Lubrication Type | pe | (Grease) Grease Lubricated |
| 31. | Drive End Bearing Insula | tion or Grounding Device? | none |
| 32. | Drive End Wavy Washer/ | Snap-Ring Other Retention Device? | ? |
| 33. | Drive End Bearing Condition | tion | pass |
| 34. | Opposite Drive End Bear | ing Brand | |
| 35. | Opposite Drive End Bear | ing Number- | 6311 |
| 36. | Opposite Drive End Bear | ing Qty. | 1 |
| 37. | Opposite Drive End Bear | ing Type | (Ball) Ball Bearing |
| 38. | Opposite Drive End Lubri | cation Type | |
| 39. | Opposite Drive End Bear | ing Insulation or Grounding Device? | |
| 40. | Opposite Drive End Wavy | y Washer/Snap-Ring Other Retentio | n Device? |
| 41. | Opposite Drive End Bear | ing Condition | |
| 42. | Drive End Seal | | |
| 43. | Opposite Drive End Seal | | |
| 44. | DE Sleeve Bearing Inside | Diameter | |
| | 0 degrees | 120 degrees | 240 degrees |
| 45 | DE 01 D 0.4 | de Dienesten | |
| 45. | DE Sleeve Bearing Outsi | | 040 1 |
| | 0 degrees | 120 degrees | 240 degrees |
| 46. | DE Sleeve Bearing Hous | ing Inside Diameter | |
| | 0 degrees | 120 degrees | 240 degrees |
| | | <u> </u> | Ţ |
| 47. | DE Sleeve Bearing to Ho | using Clearance | |
| | 0 degrees | 120 degrees | 240 degrees |
| | | | |
| 48. | ODE Sleeve Bearing Insi | de Diameter | |
| | 0 degrees | 120 degrees | 240 degrees |
| 49. | ODE Sleeve Bearing Out | side Diameter | |
| ਰਹ. | - | 120 degrees | 240 degrees |
| | 0 degrees | 120 degrees | 240 degrees |
| 50. | ODE Sleeve Bearing Hou | using Inside Diameter | |
| | 0 degrees | 120 degrees | 240 degrees |
| | | | |
| | ODE Clasus Bassing to L | lousing Clearance | |
| 51. | ODE Sieeve Bearing to F | | |
| 51. | 0 degrees | 120 degrees | 240 degrees |

Hi-Speed Industrial Service disclaims all warranties, both express and implied, relating to the information, reports, opinions and analysis disclosed to the Customer by Hi-Speed. Hi-Speed shall not be liable for any errors or omissions, or any losses, injury or damages arising from the use of such information, reports, opinions and analysis by the Customer.



Mechanical Fits- Rotor



| 53. | Growler Test | (Pass) Pass | |
|-----|---|------------------|--|
| 54. | Number of Rotor Bars | 40 | |
| 55. | Rotor Condition | pass | |
| 56. | List the Parts needed for the Repair Below | | |
| 57. | Signature of Technician that Disassembled Motor | Terrence Holland | |

T_ Halland

| 58. | Shaft Runout | | 0.001 inches |
|-----|---------------------------------|-------------------|----------------------------|
| 59. | Rotor Runout | | |
| | Drive End Bearing Fit | Rotor Body | Opposite Drive End Bearing |
| | | | |
| 60. | Coupling Fit Closest to Bearing | Housing | |
| | 0 Degrees | 90 Degrees | 120 Degrees |
| | | | |
| 61. | Coupling Fit Closest to the end | of the Shaft | |
| | 0 Degrees | 60 Degrees | 120 Degrees |
| | | | |
| 62. | Drive End Bearing Shaft Fit | | |
| | 0 Degrees | 60 Degrees | 120 Degrees |
| | | | |
| 63. | Drive End Bearing Shaft Fit Co | ndition | |
| 64. | Opposite Drive End Bearing Sh | aft Fit | |
| | 0 Degrees | 60 Degrees | 120 Degrees |
| | | | |
| 65. | Opposite Drive End Bearing Sh | aft Fit Condition | |

Mechanical Fits- Bearing Housings

Drive End Air Seal

66. Shaft Air Seal Fits

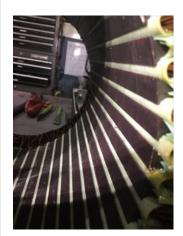
Hi-Speed Industrial Service disclaims all warranties, both express and implied, relating to the information, reports, opinions and analysis disclosed to the Customer by Hi-Speed. Hi-Speed shall not be liable for any errors or omissions, or any losses, injury or damages arising from the use of such information, reports, opinions and analysis by the Customer.

Opposite Drive End Air Seal

| 67. | Drive End - Endbell Bearing Fit | | |
|------------|---|--------------------------------|-------------|
| | 0 Degrees | 60 Degrees | 120 Degrees |
| | | | |
| 68. | Drive End - Endbell Bearing Fit Co | ondition | |
| 69. | Opposite Drive End - Endbell Bear | ring Fit | |
| | 0 Degrees | 60 Degrees | 120 Degrees |
| | | | |
| 70. | Opposite Drive End - Endbell Bear | ring Fit Condition | |
| 71. | Bearing Cap Condition | | |
| | Drive End Bearing Cap | Opposite Drive End Bearing Cap | |
| | | | |
| 72. | End Bell Air Seal Fits | | |
| | Drive End Air Seal | Opposite Drive End Air Seal | |
| | | | |
| 73. | List Machine Work Needed Below | | |
| 74. | Technician | | |
| _ | ic Balance Report | | |
| 75. | Rotor Weight and Balance Grade | | |
| | Rotor Weight | Balance Grade | |
| | | | |
| 76. | Initial Balance Readings | | |
| | Drive End | Opposite Drive End | |
| | | | |
| 77. | Final Balance Readings | | |
| | Drive End | Opposite Drive End | |
| | | | |
| 78. | Technician | | |
| Rewind | | | |
| 79. | Core Test Results - Watts loss per | | |
| | Pre-Burnout | Post Burnout | |
| | 0 11 10 17 | | |
| 80. | Core Hot Spot Test | D 1 D 1 | |
| | Pre-Burnout | Post-Burnout | |
| 04 | Doot Dougland Floatistant Took January | ation Decistores | |
| 81. 82. | Post Rewind Electrical Test- Insula Post Rewind Polarization Index | ation Resistance | |
| 83. | | | |
| 03. | Post Rewind Winding Resistance | 1.2 | 2.2 |
| | 1-2 | 1-3 | 2-3 |
| 84. | Post Rewind Surge Test | | |
| 85. | Post Rewind Hi-Pot | | |
| 86. | Technician | | |
| | ause of Failure | | i a |
| | Failure locations | | 0 |
| 07. | In slot inside stator. | | |

88. Root cause of failure P18

Wire imbedded in stator slot penetrated the paper and windings.





| Mecha | nical Fits- Rotor - Post Repair | • | | |
|-------|------------------------------------|--------------------------------|----------------------------|--|
| 89. | Shaft Runout Post Repair | | | |
| 90. | Rotor Runout Post Repair | | | |
| | Drive End Bearing Fit | Rotor Body | Opposite Drive End Bearing | |
| | | | | |
| 91. | Coupling Fit Closest to Bearing Ho | ousing Post Repair | | |
| | 0 Degrees | 90 Degrees | 120 Degrees | |
| | | | | |
| 92. | Coupling Fit Closest to the end of | the Shaft Post Repair | | |
| | 0 Degrees | 60 Degrees | 120 Degrees | |
| | | | | |
| 93. | Drive End Bearing Shaft Fit Post F | • | | |
| | 0 Degrees | 60 Degrees | 120 Degrees | |
| | | | | |
| 94. | Opposite Drive End Bearing Shaft | · | | |
| | 0 Degrees | 60 Degrees | 120 Degrees | |
| | | | | |
| 95. | | | | |
| | Drive End Air Seal | Opposite Drive End Air Seal | | |
| | 01 " 0 " " | | | |
| 96. | | | | |
| | nical Fits- Bearing Housings - | - | | |
| 97. | Drive End - Endbell Bearing Fit Po | · | | |
| | 0 Degrees | 60 Degrees | 120 Degrees | |
| | | . 5.5 .5 | | |
| 98. | Opposite Drive End - Endbell Bea | | 100 5 | |
| | 0 Degrees | 60 Degrees | 120 Degrees | |
| 00 | Bassing Can Canditian B. 4 B. | | | |
| 99. | Bearing Cap Condition Post Repa | | | |
| | Drive End Bearing Cap | Opposite Drive End Bearing Cap | | |
| | | | | |

| 100. | End Bell Air Seal Fits Post Repair | | | |
|-------|------------------------------------|--------------------------------|------------|--|
| | Drive End Air Seal | Opposite Drive End Air Seal | | |
| | Bivo Ena / iii Coai | opposite Billo Elia / ili Coal | | |
| | | | | |
| 101. | DE Sleeve Bearing Inside ID Post | Repair | | |
| | Measure 1 | Measure 2 | Measure 3 | |
| | | | | |
| | | | | |
| 102. | DE Sleeve Bearing Outside ID Po | st Repair | | |
| | Measure 1 | Measure 2 | Measure 3 | |
| | | | | |
| 400 | DE Olesco Descise Instituto OD Des | d Danain | | |
| 103. | DE Sleeve Bearing Inside OD Pos | | | |
| | Measure 1 | Measure 2 | Measure 3 | |
| | | | | |
| 104 | DE Sleeve Bearing Outside OD P | nst Renair | | |
| 101. | | | | |
| | Measure 1 | Measure 2 | Measure 3 | |
| | | | | |
| 105. | End Bell Repair Sign-off | | | |
| | ODE Sleeve Bearing Inside ID Po | st Renair | | |
| 100. | | | Manager 2 | |
| | Measure 1 | Measure 2 | Measure 3 | |
| | | | | |
| 107. | ODE Sleeve Bearing Outside ID F | Post Repair | | |
| | Measure 1 | Measure 2 | Measure 3 | |
| | Wododio i | Woddaid Z | Widadaro o | |
| | | | | |
| 108. | ODE Sleeve Bearing Inside OD P | ost Repair | | |
| | Measure 1 | Measure 2 | Measure 3 | |
| | | | | |
| 100 | ODE Sleeve Bearing Outside OD | Pact Panair | | |
| 103. | | | | |
| | Measure 1 | Measure 2 | Measure 3 | |
| | | | | |
| Assem | blv | | | |
| | QC Check All Parts for Cleanlines | s Prior to Assambly | | |
| | | • | | |
| | Photograph All Major Components | s prior to assembly | | |
| 112. | Final Insulation Resistance Test | | | |
| 113. | Assembled Shaft Endplay | | | |
| 114. | Assembled Shaft Runout | | | |
| 115 | Test Run Voltage | | | |
| . 10. | | Valta | Volta | |
| | Volts | Volts | Volts | |
| | | | | |
| 116. | Test Run Amperage | | | |
| | Amps | Amps | Amps | |
| | | | | |
| = | 5. 5.1/11 5 | | | |
| 117. | Drive End Vibration Readings - In | ches Per Second | | |
| | Horizontal | Vertical | Axial | |
| | | | | |
| 110 | Opposite Drive End Vibration Rea | dings - Inches Par Second | | |
| 118. | | | | |
| | Horizontal | Vertical | Axial | |
| | | | | |
| 119 | Ambient Temperature - Fahrenhei | it | | |
| 110. | orat romporataro i amornio | • | | |

| 120. Drive End Bearing Temps - Fahrenheit 5 Minutes 10 Minutes 11 Minutes 12 Drive End Bearing Temps - Fahrenheit 20-30 Minutes 20 Minutes 25 Minutes 30 Minutes 31 Minutes 32 Minutes 33 Minutes 33 Minutes 40 Minutes 45 Minutes 45 Minutes 45 Minutes 45 Minutes 46 Minutes 47 Minutes 48 Minutes 48 Minutes 49 Minutes 40 M | | | | | |
|--|-------|--|--------------------------------|----------------|--|
| 121. Drive End Bearing Temps - Fahrenheit 20-30 Minutes 20 Minutes 25 Minutes 30 Minutes 31 Minutes 32 Minutes 33 Minutes 34 Minutes 35 Minutes 40 Minutes 45 Minutes 35 Minutes 50 Minutes 50 Minutes 50 Minutes 50 Minutes 51 Minutes 50 Minutes 51 Minutes 51 Minutes 51 Minutes 52 Minutes 53 Minutes 54 Minutes 55 Minutes 55 Minutes 56 Minutes 57 Minutes 58 Minutes 59 Minutes 59 Minutes 50 Minutes 60 Minutes | 120. | Drive End Bearing Temps - Fah | nrenheit | | |
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