

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

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AC Inspection as Found Riceland Foods (11100-RLF) Hwy 79 & N. Park Ave.

Stuttgart, AR 72160

AC Inspection - Rev. 2

MOTOR SHOP LR Location:

Serial Number:

Description: 50HP US 1770 RPM

| Manufacturer: | JS Motors/Nidec |
|---|------------------|
| Spec/ID #: B | 3097711ER-A1 |
| HP/kW: 5 | 60 (HP) |
| RPM: 1 | 770 (RPM) |
| Frame: 5 | 26T |
| Voltage: 2 | 30 / 460 |
| Current: 1 | 16.6/58.3 (Amps) |
| Phase: T | hree |
| Hz: 6 | 60 (Hz) |
| Service Factor: 1 | .00 |
| Enclosure: T | E |
| # of Leads: 3 | , |
| J-box Included: | Complete |
| Coupling/Sheave: N | lone |
| Date Received: 0 | 2/13/2025 |
| Bearing RTDs: | 10 |
| Stator RTDs: N | 10 |
| Repair Stage: F | inal |
| Rewind: N | 10 |
| Shaft Machined Fit Repairs N Required: | No |
| Bearing Housing Machined N Fit Repairs Required: | lo |
| Heaters: N | ło |
| Winding Type : R | Random Wound |
| Bearing Type: | Rolling Element |

Priorities Found: 1 - High



11 - Good

Overall Condition

0

Report Date

02/17/2025



3. Photos of all six sides of the machine.



P45















 Describe the Overall Condition of the Equipment as Received Serviceable

Initial Mechanical/Electrical

5. Does Shaft Turn Freely?

Fan assembly rubbing against dented in fan cover.

6. Does the shaft require T.I.R in Lathe to identify additional repairs?

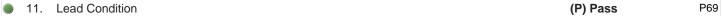
7. Does Shaft Have Visible Damage?

(No) No

P26



| 8. | Assembled Shaft Runout | 0.001 Inches |
|-----|--------------------------|--------------|
| 9. | Assembled Shaft End Play | 0 inches |
| 10. | Air Gap Variation <10% | |





| 12. | Lead Length | 10 Inches | |
|-----|--|-----------|------|
| 13. | Does it have Lugs?, If so what is the Stud Size? | (No) No | |
| 14. | Lead Numbers | 1-3 | |
| 15. | Frame Condition | pass | |
| 16. | Fan Condition | (P) Pass | P115 |





0

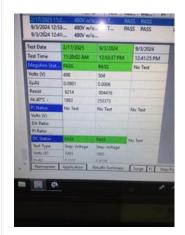
P8

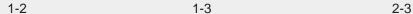
17. Does motor have internal fan? (No) No
 18. Broken or Missing Components none

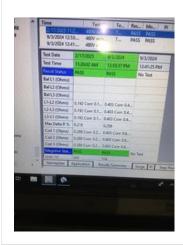
Fan cover is dented but can be straightened.

Initial Electrical Inspection

19. Insulation Resistance/Megger Megohms

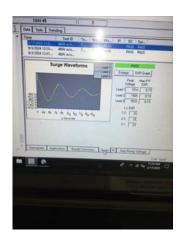






21. Perform Surge Test(P) PassP57





22. Number of Stator Slots 48

23. Stator Condition pass

24. Stator Thermistors/Ohms

25. Stator Overloads/Ohms

Mechanical Inspection

26. Drive End Bearing Brand





0

MRC

P12



| 28. | Drive End Bearing Qty. | 1 | |
|-----|---|----------------------------|-----|
| 29. | Drive End Bearing Type | (Ball) Ball Bearing | |
| 30. | Drive End Lubrication Type | (Grease) Grease Lubricated | |
| 31. | Drive End Bearing Insulation or Grounding Device? | none | |
| 32. | Drive End Wavy Washer/Snap-Ring Other Retention Device? | none | |
| 33. | Drive End Bearing Condition | replace | |
| 34. | Opposite Drive End Bearing Brand | MRC | P92 |





35. Opposite Drive End Bearing Number-

P99



Opposite Drive End Bearing Qty.

37. Opposite Drive End Bearing Type (Ball) Ball Bearing

| 38. | Opposite Drive End Lubrication Type | (Grease) Grease Lubricated | |
|-----|--|----------------------------|------|
| 39. | Opposite Drive End Bearing Insulation or Grounding Device? | none | |
| 40. | Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device? | none | |
| 41. | Opposite Drive End Bearing Condition | replace | |
| 42 | Drive End Seal | USFM 344625 | P120 |





43. Opposite Drive End Seal none

Rotor Inspection

0

44. Rotor Type/Material

(Squirrel Aluminum) Squirrel Cage Aluminum Die Cast

P3



| 45. | Growler Test | (Pass) Pass | |
|-----|----------------------|-------------|--|
| 46. | Number of Rotor Bars | 56 | |
| 47. | Rotor Condition | pass | |
| | | | |

List the Parts needed for the Repair Below
 311 & 311 2RS bearings
 Remove multiple dents from fan cover and replace grease overload tube. Recondition motor

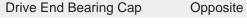
49. Signature of Technician that Disassembled Motor

Terrence Holland

Mechanical Fits- Rotor

50. Shaft Runout 0.001 inches

| | 51. | Rotor Runout | | | |
|---|---|---|--|--|----------|
| | | Drive End Bearing Fit | Rotor Body | Opposite Drive End Bearing | |
| | | | | | |
| | 52. | Coupling Fit Closest to Bearing H | ousing | | |
| | | 0 Degrees | 90 Degrees | 120 Degrees | |
| | | | | | |
| | 53. | Coupling Fit Closest to the end of | the Shaft | | |
| | | 0 Degrees | 60 Degrees | 120 Degrees | |
| | | 2.1247 | 2.1246 | 2.1247 | |
| | 54. | Drive End Bearing Shaft Fit | | | |
| | | 0 Degrees | 60 Degrees | 120 Degrees | |
| | | 2.1655 | 2.1654 | 2.1654 | |
| | 55. | Drive End Bearing Shaft Fit Cond | | (P) Pass | |
| | 56. | Opposite Drive End Bearing Shaf | | | |
| | | 0 Degrees | 60 Degrees | 120 Degrees | |
| | | · · | <u> </u> | · · | |
| | | 2.1655 | 2.1655 | 2.1655 | |
| • | 57. | Opposite Drive End Bearing Shaf | 2.1655 | · · | |
| | 57. 58. | Opposite Drive End Bearing Shaft Shaft Air Seal Fits | 2.1655 t Fit Condition | 2.1655 | |
| • | - | Opposite Drive End Bearing Shaf | 2.1655 | 2.1655 | |
| | 58. | Opposite Drive End Bearing Shaft Shaft Air Seal Fits Drive End Air Seal | 2.1655 t Fit Condition | 2.1655 | |
| M | 58. echa | Opposite Drive End Bearing Shaf Shaft Air Seal Fits Drive End Air Seal nical Fits- Bearing Housings | 2.1655 t Fit Condition | 2.1655 | Ō |
| M | 58. | Opposite Drive End Bearing Shaf Shaft Air Seal Fits Drive End Air Seal nical Fits- Bearing Housings Drive End - Endbell Bearing Fit | 2.1655 t Fit Condition Opposite Drive End Air Seal | 2.1655 (P) Pass | |
| M | 58. echa | Opposite Drive End Bearing Shaf Shaft Air Seal Fits Drive End Air Seal nical Fits- Bearing Housings Drive End - Endbell Bearing Fit 0 Degrees | 2.1655 t Fit Condition Opposite Drive End Air Seal 60 Degrees | 2.1655 (P) Pass 120 Degrees | 6 |
| M | 58. echa 59. | Opposite Drive End Bearing Shaf Shaft Air Seal Fits Drive End Air Seal nical Fits- Bearing Housings Drive End - Endbell Bearing Fit 0 Degrees 4.7254 | 2.1655 t Fit Condition Opposite Drive End Air Seal 60 Degrees 4.7253 | 2.1655 (P) Pass 120 Degrees 4.7254 | |
| M | 58. echa 59. | Opposite Drive End Bearing Shaf Shaft Air Seal Fits Drive End Air Seal nical Fits- Bearing Housings Drive End - Endbell Bearing Fit 0 Degrees 4.7254 Drive End - Endbell Bearing Fit C | 2.1655 It Fit Condition Opposite Drive End Air Seal 60 Degrees 4.7253 ondition | 2.1655 (P) Pass 120 Degrees | 6 |
| M | 58. echa 59. | Opposite Drive End Bearing Shaft Shaft Air Seal Fits Drive End Air Seal nical Fits- Bearing Housings Drive End - Endbell Bearing Fit 0 Degrees 4.7254 Drive End - Endbell Bearing Fit C Opposite Drive End - Endbell Bear | 2.1655 It Fit Condition Opposite Drive End Air Seal 60 Degrees 4.7253 ondition aring Fit | 2.1655 (P) Pass 120 Degrees 4.7254 (P) Pass | Ō |
| M | 58. echa 59. | Opposite Drive End Bearing Shaft Shaft Air Seal Fits Drive End Air Seal nical Fits- Bearing Housings Drive End - Endbell Bearing Fit 0 Degrees 4.7254 Drive End - Endbell Bearing Fit C Opposite Drive End - Endbell Bear 0 Degrees | 2.1655 It Fit Condition Opposite Drive End Air Seal 60 Degrees 4.7253 ondition aring Fit 60 Degrees | 2.1655 (P) Pass 120 Degrees 4.7254 (P) Pass | O |
| M | 58. echa 59. 60. 61. | Opposite Drive End Bearing Shaft Shaft Air Seal Fits Drive End Air Seal nical Fits- Bearing Housings Drive End - Endbell Bearing Fit 0 Degrees 4.7254 Drive End - Endbell Bearing Fit C Opposite Drive End - Endbell Bearing 0 Degrees 3.9375 | 2.1655 It Fit Condition Opposite Drive End Air Seal 60 Degrees 4.7253 ondition aring Fit 60 Degrees 3.9376 | 2.1655 (P) Pass 120 Degrees 4.7254 (P) Pass 120 Degrees 3.9376 | 6 |
| M | 58. echa 59. 60. 61. | Opposite Drive End Bearing Shaft Shaft Air Seal Fits Drive End Air Seal nical Fits- Bearing Housings Drive End - Endbell Bearing Fit O Degrees 4.7254 Drive End - Endbell Bearing Fit C Opposite Drive End - Endbell Bear O Degrees 3.9375 Opposite Drive End - Endbell Bear | 2.1655 It Fit Condition Opposite Drive End Air Seal 60 Degrees 4.7253 ondition aring Fit 60 Degrees 3.9376 | 2.1655 (P) Pass 120 Degrees 4.7254 (P) Pass | |
| M | 58. echa 59. 60. 61. | Opposite Drive End Bearing Shaft Shaft Air Seal Fits Drive End Air Seal nical Fits- Bearing Housings Drive End - Endbell Bearing Fit 0 Degrees 4.7254 Drive End - Endbell Bearing Fit C Opposite Drive End - Endbell Bearing 0 Degrees 3.9375 | 2.1655 It Fit Condition Opposite Drive End Air Seal 60 Degrees 4.7253 ondition aring Fit 60 Degrees 3.9376 | 2.1655 (P) Pass 120 Degrees 4.7254 (P) Pass 120 Degrees 3.9376 (P) Pass | P52 |







64. End Bell Air Seal Fits Opposite Drive End Air Seal Drive End Air Seal

| 65. | List Machine Work Needed Belov | v | | |
|--------|----------------------------------|--|------------------|------|
| | None | | | |
| 66. | Technician | | Terrence Holland | |
| Poot C | ause of Failure | | | |
| 67. | | | 0 | |
| 67. | Fan cover | | | |
| 68. | Root cause of failure | | | P18 |
| 00. | | h allowed the fan to rub against the cover | | F 10 |
| | | | | |
| - | nic Balance Report | | | |
| 69. | Rotor Weight and Balance Grade | | | |
| | Rotor Weight | Balance Grade | | |
| 70. | Initial Balance Readings | | | |
| 70. | Drive End | Opposite Drive End | | |
| | DIIVE LIIQ | Opposite Drive Life | | |
| 71. | Final Balance Readings | | | |
| | Drive End | Opposite Drive End | | |
| | | • • | | |
| 72. | Technician | | | |
| Assem | ıbly | | | |
| 73. | QC Check All Parts for Cleanline | ss Prior to Assembly | | |
| 74. | Photograph All Major Component | ts prior to assembly | | |
| 75. | Final Insulation Resistance Test | | | |
| 76. | Assembled Shaft Endplay | | | |
| 77. | Assembled Shaft Runout | | | |

Volts

Volts

78.

Test Run Voltage

Volts

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| 79. Test Run Amperage Amps Amps Amps Amps 80. Drive End Vibration Readings - Inches Per Second Horizontal Vertical Axial 81. Opposite Drive End Vibration Readings - Inches Per Second Horizontal Vertical Axial 82. Ambient Temperature - Fahrenheit 83. Drive End Bearing Temps - Fahrenheit 5 Minutes 10 Minutes 15 Minutes 84. Opposite Drive End Bearing Temps - Fahrenheit 5 Minutes 10 Minutes 15 Minutes | | | | |
|--|-----|------------------------------|----------------------------|------------|
| 80. Drive End Vibration Readings - Inches Per Second Horizontal Vertical Axial 81. Opposite Drive End Vibration Readings - Inches Per Second Horizontal Vertical Axial 82. Ambient Temperature - Fahrenheit 83. Drive End Bearing Temps - Fahrenheit 5 Minutes 10 Minutes 15 Minutes 84. Opposite Drive End Bearing Temps - Fahrenheit 5 Minutes 10 Minutes 15 Minutes | 79. | Test Run Amperage | | |
| Horizontal 81. Opposite Drive End Vibration Readings - Inches Per Second Horizontal 82. Ambient Temperature - Fahrenheit 83. Drive End Bearing Temps - Fahrenheit 5 Minutes 10 Minutes 15 Minutes 15 Minutes | | Amps | Amps | Amps |
| Horizontal 81. Opposite Drive End Vibration Readings - Inches Per Second Horizontal 82. Ambient Temperature - Fahrenheit 83. Drive End Bearing Temps - Fahrenheit 5 Minutes 10 Minutes 15 Minutes 15 Minutes | | | | |
| 81. Opposite Drive End Vibration Readings - Inches Per Second Horizontal Vertical Axial 82. Ambient Temperature - Fahrenheit 83. Drive End Bearing Temps - Fahrenheit 5 Minutes 10 Minutes 15 Minutes 84. Opposite Drive End Bearing Temps - Fahrenheit 5 Minutes 10 Minutes 15 Minutes | 80. | Drive End Vibration Reading | s - Inches Per Second | |
| Horizontal Vertical Axial 82. Ambient Temperature - Fahrenheit 83. Drive End Bearing Temps - Fahrenheit 5 Minutes 10 Minutes 15 Minutes 84. Opposite Drive End Bearing Temps - Fahrenheit 5 Minutes 10 Minutes 15 Minutes | | Horizontal | Vertical | Axial |
| Horizontal Vertical Axial 82. Ambient Temperature - Fahrenheit 83. Drive End Bearing Temps - Fahrenheit 5 Minutes 10 Minutes 15 Minutes 84. Opposite Drive End Bearing Temps - Fahrenheit 5 Minutes 10 Minutes 15 Minutes | | | | |
| 82. Ambient Temperature - Fahrenheit 83. Drive End Bearing Temps - Fahrenheit 5 Minutes 10 Minutes 15 Minutes 84. Opposite Drive End Bearing Temps - Fahrenheit 5 Minutes 10 Minutes 15 Minutes | 81. | Opposite Drive End Vibration | Readings - Inches Per Seco | ond |
| 83. Drive End Bearing Temps - Fahrenheit 5 Minutes 10 Minutes 15 Minutes 84. Opposite Drive End Bearing Temps - Fahrenheit 5 Minutes 10 Minutes 15 Minutes | | Horizontal | Vertical | Axial |
| 83. Drive End Bearing Temps - Fahrenheit 5 Minutes 10 Minutes 15 Minutes 84. Opposite Drive End Bearing Temps - Fahrenheit 5 Minutes 10 Minutes 15 Minutes | | | | |
| 5 Minutes 10 Minutes 15 Minutes 84. Opposite Drive End Bearing Temps - Fahrenheit 5 Minutes 10 Minutes 15 Minutes | 82. | Ambient Temperature - Fahr | enheit | |
| 84. Opposite Drive End Bearing Temps - Fahrenheit 5 Minutes 10 Minutes 15 Minutes | 83. | Drive End Bearing Temps - F | ahrenheit | |
| 5 Minutes 10 Minutes 15 Minutes | | 5 Minutes | 10 Minutes | 15 Minutes |
| 5 Minutes 10 Minutes 15 Minutes | | | | |
| | 84. | Opposite Drive End Bearing | Temps - Fahrenheit | |
| 95 Decument Final Condition with Disturce ofter point | | 5 Minutes | 10 Minutes | 15 Minutes |
| 95 Degument Final Condition with Dictures ofter point | | | | |
| 65. Document Final Condition with Fictures after paint | 85. | Document Final Condition wi | th Pictures after paint | |
| 86. Final Pics and QC Review | 86. | Final Pics and QC Review | | |

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