

LR Motor Shop Repairs

Job Number 103170

Prepared for Sage V Foods

5901 SLOAN DRIVE LITTLE ROCK AR 72206

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AC Inspection as Found

Sage V Foods 5901 SLOAN DRIVE LITTLE ROCK, AR 72206

FolderID: 103170 FormID: 20845788

AC Inspection - Rev. 2

Location: MOTOR SHOP LR

Serial Number: 121411

Description:MIDWESTERN SHAKER

| Hi-Speed Job Number: | 103070 |
|--|-----------------|
| Manufacturer: | MIDWESTERN |
| Product Number: | F3-30 |
| Serial Number: | 121411 |
| RPM: | 1170 (RPM) |
| Frame: | SHAKER |
| Voltage: | 230 / 460 |
| Current: | 2.6/1.3 |
| Phase: | Three |
| Hz: | 60 (Hz) |
| Service Factor: | 1.15 |
| Enclosure: | TENV |
| # of Leads: | 9 |
| J-box Included: | Complete |
| Coupling/Sheave: | None |
| Date Received: | 06/27/2024 |
| Bearing RTDs: | No |
| Stator RTDs: | No |
| Repair Stage: | Final |
| Rewind: | Yes |
| Shaft Machined Fit Repairs Required: | No |
| Bearing Housing Machined Fit Repairs Required: | No |
| Heaters: | No |
| Winding Type : | Random Wound |
| Bearing Type: | Rolling Element |
| | |

Priorities Found: 1 - High

9 - Good

Overall Condition

1. Report Date 07/05/2024

Nameplate Picture



3. Photos of all six sides of the machine.

















| | 4. | Describe the Overall Condition of the | Equipment as Received | |
|----|-------|--|--------------------------------|-------------|
| | | Dirty | | |
| In | itial | Mechanical/Electrical | | |
| | 5. | Does Shaft Turn Freely? | | (Y) Yes |
| | 6. | Does the shaft require T.I.R in Lathe t | o identify additional repairs? | (No) No |
| | 7. | Does Shaft Have Visible Damage? | | (No) No |
| | 8. | Assembled Shaft Runout | | Inches |
| | 9. | Assembled Shaft End Play | | inches |
| | 10. | Air Gap Variation <10% | | |
| | 11. | Lead Condition | | (P) Pass |
| | 12. | Lead Length | | |
| | 13. | 13. Does it have Lugs?, If so what is the Stud Size? (No) No | | |
| | 14. | Lead Numbers | | 1-9 |
| | 15. | Frame Condition | | pass |
| | 16. | Fan Condition | | (N) NA |
| | 17. | Broken or Missing Components | | none |
| In | itial | Electrical Inspection | | |
| | 18. | Insulation Resistance/Megger | | 189 Megohms |
| | 19. | Winding Resistance | | |
| | | 1-2 | 1-3 | 2-3 |
| | | 37.79 | 17.04 | 21.29 |



21. Number of Stator Slots

36

22. Stator Condition

rewind

Shorted turn to turn





| 23. Stator Thermistors/Ohms | na |
|-------------------------------|--------|
| 24. Stator Overloads/Ohms | na |
| Mechanical Inspection | |
| 25. Drive End Bearing Brand | FAG |
| 26. Drive End Bearing Number- | NJ308E |



| 27. Drive End Bearing Qty. | 1 |
|---|----------------------------|
| 28. Drive End Bearing Type | (Roller) Roller Bearing |
| 29. Drive End Lubrication Type | (Grease) Grease Lubricated |
| 30. Drive End Bearing Insulation or Grounding Device? | na |
| 31. Drive End Wavy Washer/Snap-Ring Other Retention Device? | NA |
| 32. Drive End Bearing Condition | normal wear |



Grease contamination from water

| 33. Opposite Drive End Bearing Brand | FAG |
|--|--------|
| 34. Opposite Drive End Bearing Number- | NJ308E |



| 35. Opposite Drive End Bearing Qty. | 1 |
|--|----------------------------|
| 36. Opposite Drive End Bearing Type | (Roller) Roller Bearing |
| 37. Opposite Drive End Lubrication Type | (Grease) Grease Lubricated |
| 38. Opposite Drive End Bearing Insulation or Grounding Device? | na |
| 39. Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device? | na |
| 40. Opposite Drive End Bearing Condition | normal wear |



Grease contamination from water

| 0,0000 | Contamination from water | | |
|--------------|--|-------------|--|
| 41. | Drive End Seal | | na |
| 42. | Opposite Drive End Seal | | na |
| Rotor | Inspection | | |
| 43. | Rotor Type/Material | | (Squirrel Aluminum) Squirrel Cage Aluminum Die Cast |
| 44. | Growler Test | | (Pass) Pass |
| 45. | Number of Rotor Bars | | 48 |
| 46. | Rotor Condition | | pass |
| 47. | List the Parts needed for the Repair B 2-NJ308E ROLLER BEARINGS | elow | |
| 48. | Signature of Technician that Disassen | nbled Motor | RW |
| | anical Fits- Rotor | | |
| | Shaft Runout | | 0.0005 inches |
| 50. | Rotor Runout | | |
| | Drive End Bearing Fit | Rotor Body | Opposite Drive End Bearing |
| 51. | Coupling Fit Closest to Bearing Housi | ng | |
| | 0 Degrees | 90 Degrees | 120 Degrees |
| 52. | Coupling Fit Closest to the end of the | Shaft | |
| | 0 Degrees | 60 Degrees | 120 Degrees |
| 53. | Drive End Bearing Shaft Fit | | |
| | 0 Degrees | 60 Degrees | 120 Degrees |
| • 54. | Drive End Bearing Shaft Fit Condition | | (P) Pass |
| 55. | Opposite Drive End Bearing Shaft Fit | | |
| | 0 Degrees | 60 Degrees | 120 Degrees |
| 56 | Opposite Drive End Bearing Shaft Fit | Condition | (P) Pass |

| | Ol# A:- O! F:+- | | | |
|------------------------------------|---|---------------------------------------|-------------|----------|
| 57. | Shaft Air Seal Fits | | | |
| | Drive End Air Seal | Opposite Drive End Air Seal | | |
| Maak | enical Fita Bearing Housings | | | |
| | anical Fits- Bearing Housings | | | |
| 56. | Drive End - Endbell Bearing Fit | CO Da | 400 Danie | |
| | 0 Degrees | 60 Degrees | 120 Degrees | |
| | 3.5433 | 3.5433 | 3.5433 | (D) D |
| | Drive End - Endbell Bearing Fit Condi | | | (P) Pass |
| 60. | Opposite Drive End - Endbell Bearing | | | |
| | 0 Degrees | 60 Degrees | 120 Degrees | |
| - | 3.5435 | 3.5435 | 3.5435 | |
| 6 1. | 11 3 | Fit Condition | | (P) Pass |
| 62. | Bearing Cap Condition | | | |
| | Drive End Bearing Cap | Opposite Drive End Bearing Cap | | |
| | Ma | | | |
| - | Na | | | |
| 63. | End Bell Air Seal Fits | | | |
| | Drive End Air Seal | Opposite Drive End Air Seal | | |
| - | Na | | | |
| 64. | List Machine Work Needed Below | | | |
| | None | | | |
| - | BUI | | | |
| | Co witness CRW | | | |
| Root | Co witness CRW Cause of Failure | | | |
| | Cause of Failure | | | |
| | Cause of Failure Failure locations | | | |
| 66. | Cause of Failure Failure locations Cord winding shorted turn to to | | | |
| 66. | Cause of Failure Failure locations Cord winding shorted turn to to Root cause of failure | indina | | |
| 66. | Cause of Failure Failure locations Cord winding shorted turn to to Root cause of failure Water contamination in bearings and w | inding | | |
| 66. 67. | Cause of Failure Failure locations Cord winding shorted turn to to Root cause of failure Water contamination in bearings and w | inding | | |
| 66. 67. | Cause of Failure Failure locations Cord winding shorted turn to to Root cause of failure Water contamination in bearings and w mic Balance Report Rotor Weight and Balance Grade | | | |
| 66. 67. | Cause of Failure Failure locations Cord winding shorted turn to to Root cause of failure Water contamination in bearings and w mic Balance Report Rotor Weight and Balance Grade Rotor Weight | Balance Grade | | |
| 66. 67. Dyna i 68. | Cause of Failure Failure locations Cord winding shorted turn to to Root cause of failure Water contamination in bearings and w mic Balance Report Rotor Weight and Balance Grade Rotor Weight na | | | |
| 66. 67. Dyna i 68. | Cause of Failure Failure locations Cord winding shorted turn to to Root cause of failure Water contamination in bearings and w mic Balance Report Rotor Weight and Balance Grade Rotor Weight na Initial Balance Readings | Balance Grade na | | |
| 66. 67. Dyna i 68. | Cause of Failure Failure locations Cord winding shorted turn to to Root cause of failure Water contamination in bearings and w mic Balance Report Rotor Weight and Balance Grade Rotor Weight na Initial Balance Readings Drive End | Balance Grade na Opposite Drive End | | |
| 66. 67. Dynai 68. | Cause of Failure Failure locations Cord winding shorted turn to to Root cause of failure Water contamination in bearings and w mic Balance Report Rotor Weight and Balance Grade Rotor Weight na Initial Balance Readings Drive End 0 | Balance Grade na | | |
| 66. 67. Dynai 68. | Failure locations Cord winding shorted turn to to Root cause of failure Water contamination in bearings and w mic Balance Report Rotor Weight and Balance Grade Rotor Weight na Initial Balance Readings Drive End O Final Balance Readings | Balance Grade na Opposite Drive End 0 | | |
| 66. 67. Dynai 68. | Cause of Failure Failure locations Cord winding shorted turn to to Root cause of failure Water contamination in bearings and w mic Balance Report Rotor Weight and Balance Grade Rotor Weight na Initial Balance Readings Drive End 0 | Balance Grade na Opposite Drive End | | |

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| 71. Technician | | David Maclin |
|----------------|--|--------------|
| | | |

| Rewind | | | | |
|--------|---|--------------|-----|----------------------|
| 72. | 2. Core Test Results - Watts loss per Pound | | | |
| | Pre-Burnout | Post Burnout | | |
| | na | na | | |
| 73. | Core Hot Spot Test | | | |
| | Pre-Burnout | Post-Burnout | | |
| | na | na | | |
| 74. | Post Rewind Electrical Test- Insulation | n Resistance | | 2000 Megohms |
| 75. | Post Rewind Polarization Index | | | 0 Polarization Index |
| 76. | Post Rewind Winding Resistance | | | |
| | 1-2 | 1-3 | 2-3 | |
| | 0 | 0 | 0 | |
| 77. | Post Rewind Surge Test | | | (Pass) Pass |
| 78. | Post Rewind Hi-Pot | | | 0 micro-amps |
| | | | | |

Assembly

80. QC Check All Parts for Cleanliness Prior to Assembly

David Maclin

81. Photograph All Major Components prior to assembly













| 82. | Final Insulation Resistance Test | 2000 Megohms |
|-----|----------------------------------|--------------|
| 83. | Assembled Shaft Endplay | 0 inches |
| 84. | Assembled Shaft Runout | 0 inches |

| 85. Test Run Voltage | | | |
|----------------------|-------|-------|--|
| Volts | Volts | Volts | |
| 458 | 457 | 461 | |



| 86. | Test Run Amperage | | | |
|-----|---|-----------------------|--------------|--|
| | Amps | Amps | Amps | |
| | 0.7 | 0.8 | 0.9 | |
| 87. | Drive End Vibration Readings - Inches | s Per Second | | |
| | Horizontal | Vertical | Axial | |
| | 0 | 0 | 0 | |
| 88. | Opposite Drive End Vibration Reading | s - Inches Per Second | | |
| | Horizontal | Vertical | Axial | |
| | 0 | 0 | 0 | |
| 89. | Ambient Temperature - Fahrenheit | | 0 | |
| 90. | Drive End Bearing Temps - Fahrenhei | it | | |
| | 5 Minutes | 10 Minutes | 15 Minutes | |
| | 0 | 0 | 0 | |
| 91. | 91. Opposite Drive End Bearing Temps - Fahrenheit | | | |
| | 5 Minutes | 10 Minutes | 15 Minutes | |
| | 0 | 0 | 0 | |
| 92. | Document Final Condition with Picture | es after paint | looks new | |
| 93. | Final Pics and QC Review | | David Maclin | |
| 2 | | | | |
| - | Witnessed by CW | | | |

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AC Random Coil Rewind Report

FolderID: 103170 FormID: 21021835

Sage V Foods 5901 SLOAN DRIVE LITTLE ROCK, AR 72206

MOTOR SHOP LR

Priorities Found:

General

- 1. Job Number
- 2. Report Date
- 3. Customer









Stator Winding

- 4. Core Length
- 5. Core ID
- 6. Back Iron Depth
- 7. Slot Depth
- 8. Tooth Width
- 9. Number of Vents
- 10. Vent Width

| | Flux Before Burnout |
|-----|-----------------------------------|
| 13. | |
| | Watts before burnout |
| 14. | Watts loss per lb. before burnout |
| 15. | After Burnout Core Loss |
| 16. | Flux After burnout |
| 17. | Watts After Burnout |
| 18. | Watts loss per lb After Burnout |
| | Core Iron Condition |
| 20. | RTD's |
| 21. | RTD's Reading |
| | Motor Heaters |
| 23. | Heater Qty. |
| | Heater Voltage |
| 25. | Heater Wattage |
| 26. | Thermistors |
| 27. | Number of Poles |
| 28. | Slots |
| 29. | Number of Coils |
| 30. | Coil Weight |
| 31. | Lead Markings |
| 32. | Grouping |
| 33. | Multiple Wires |
| 34. | Wire Size |
| 35. | Turns per coil |
| 36. | Pitch 1 to: |
| 37. | Connection |
| 38. | Lead Length |
| 39. | Lead Size |
| 40. | Number of Leads |
| 41. | Megger Reading After Rewind |
| 42. | Coil Machine Slot |
| 43. | Coil Machine Tip |
| 44. | Coil Machine Pitch |
| 45. | Hi Pot Reading After Rewind |
| 46. | Surge Pattern After Rewind |
| 47. | Service Technician |

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- 5. <u>DELIVERY OF GOODS AND/OR SERVICES.</u> 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.
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- 8. <u>WARRANTIES.</u> 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. <u>ABANDONED EQUIPMENT.</u> 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, earth quake, 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.
- 14. <u>NONWAIVER.</u> No course of dealing or failure of either party to strictly enforce any term, right, or condition of these Standard Terms and Conditions will be construed as a waiver of such term, right or condition. Any waiver by Hi-Speed will only be in writing and will waive no succeeding breach of a term, right or condition.
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