



AC Inspection as Found

Sage V Foods

5901 SLOAN DRIVE

LITTLE ROCK, AR 72206

FolderID: 104742

FormID: 24764926

AC Inspection - Rev. 2

Location: MOTOR SHOP LR

Serial Number: CAT#UJ20P2DM

Description: 60 HP NIDEC MR W PUMP

Hi-Speed Job Number: 104742

Manufacturer: Other

Product Number: FK51

Spec/ID #: B087745544-0056M0004

Serial Number: CAT#UJ20P2DM

HP/kW: 60 (HP)

RPM: 1770 (RPM)

Frame: 256JM

Voltage: 208-230/460

Current: 47/23 (Amps)

Phase: Three

Hz: 60 (Hz)

Service Factor: 1.25

Enclosure: TEFC

of Leads: 12

J-box Included: Complete

Coupling/Sheave: Propeller

Bearing RTDs: No

Stator RTDs: No

Repair Stage: Final

Rewind: No

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: ● 16 - Good

Overall Condition



1. Report Date

06/17/2025

2. Nameplate Picture

P37



3. Photos of all six sides of the machine.




P45

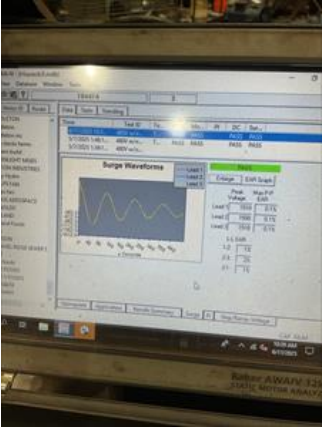
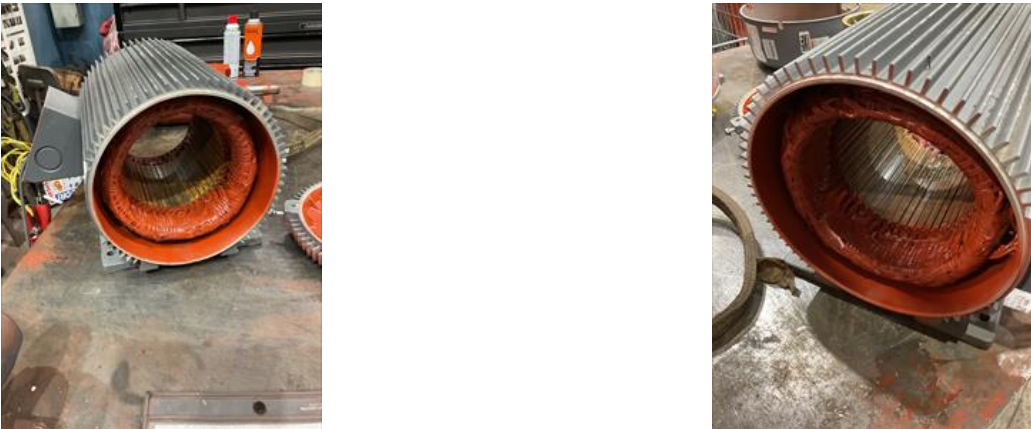






| | | |
|--------------------------------------|---|---------|
| 4. | Describe the Overall Condition of the Equipment as Received | |
| | <i>Serviceable</i> | |
| 5. | Is this a UL Listed Motor | (No) No |
| 6. | Is the motor water cooled or can be pressure checked before teardown | (No) No |
| Initial Mechanical/Electrical | | |
| 7. | Does Shaft Turn Freely? | (Y) Yes |
| 8. | Does the shaft require T.I.R in Lathe to identify additional repairs? | (No) No |
| 9. | Does Shaft Have Visible Damage? | (No) No |
| 10. | Assembled Shaft Runout | Inches |
| 11. | Distance from the end of the shaft to the Coupling/Sheave | inches |
| 12. | Assembled Shaft End Play | inches |

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| | | | |
|--|--|--------------|---|
| 13. | Air Gap Variation <10% | | |
| ● 14. | Lead Condition | (P) Pass | |
| 15. | Lead Length | 16 Inches | P88 |
|  | | | |
| ● 16. | Does it have Lugs?, If so what is the Stud Size? | (No) No | |
| 17. | Lead Numbers | 1-12 | |
| ● 18. | Are the Leads insulated with Chico or other material | (No) No | |
| 19. | Frame Condition | pass | |
| ● 20. | Fan Condition | (P) Pass | P119 |
|  | | | |
| ● 21. | Does motor have internal fan? | (No) No | |
| 22. | Broken or Missing Components | NA | |
| Initial Electrical Inspection | | |  |
| 23. | Insulation Resistance/Megger | 3238 Megohms | |
| 24. | Winding Resistance | | |
| | 1-2 | 1-3 | 2-3 |
| | 0.451 | 0.451 | 0.453 |

| | | |
|--|----------------------------|-----|
| 25. Perform Surge Test | (P) Pass | P57 |
|  | | |
| 26. Number of Stator Slots | 48 | |
| 27. Stator Condition | wash and dry | P85 |
|  | | |
| 28. Stator Thermistors/Ohms | na | |
| 29. Stator Overloads/Ohms | na | |
| Mechanical Inspection  | | |
| 30. Drive End Bearing Brand | FAG | |
| 31. Drive End Bearing Number- | 6310 ZZ C3 | P32 |
|  | | |
| 32. Drive End Bearing Qty. | 1 | |
| 33. Drive End Bearing Type | (Ball) Ball Bearing | |
| 34. Drive End Lubrication Type | (Grease) Grease Lubricated | |

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| | | | |
|--|--|---------------------------------------|------|
| 35. | Drive End Bearing Insulation or Grounding Device? | Na | |
| 36. | Drive End Wavy Washer/Snap-Ring Other Retention Device? | NA | |
| 37. | Drive End Bearing Condition | water contamination and metal fatigue | P83 |
|  | | | |
| 38. | Opposite Drive End Bearing Brand | FAG | |
| 39. | Opposite Drive End Bearing Number- | 6207 ZZ C3 | P101 |
|  | | | |
| 40. | Opposite Drive End Bearing Qty. | 1 | |
| 41. | Opposite Drive End Bearing Type | (Ball) Ball Bearing | |
| 42. | Opposite Drive End Lubrication Type | (Grease) Grease Lubricated | |
| 43. | Opposite Drive End Bearing Insulation or Grounding Device? | NA | |
| 44. | Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device? | Wavy washer | |
| 45. | Opposite Drive End Bearing Condition | the start of frosting | P120 |

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46. Drive End Seal
 Shaft 1.500 seat 2.136

carbon ceramic

P123



47. Opposite Drive End Seal

NA

Rotor Inspection



48. Rotor Type/Material

(Squirrel Aluminum) Squirrel
 Cage Aluminum Die Cast

P3



49. Growler Test

(Pass) Pass

50. Number of Rotor Bars

40

51. Rotor Condition

pass

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52. List the Parts needed for the Repair Below

1-6310ZZ C3 BEARING
2-6207ZZ C3 BEARING

53. Signature of Technician that Disassembled Motor

RW



Mechanical Fits- Rotor



54. Shaft Runout

0 inches

55. Rotor Runout

Drive End Bearing Fit

Rotor Body

Opposite Drive End Bearing

56. Coupling Fit Closest to Bearing Housing

0 Degrees

90 Degrees

120 Degrees

57. Coupling Fit Closest to the end of the Shaft

0 Degrees

60 Degrees

120 Degrees

58. Drive End Bearing Shaft Fit

0 Degrees

60 Degrees

120 Degrees

1.9688

1.9688

1.9688

59. Drive End Bearing Shaft Fit Condition

(P) Pass

P81



60. Opposite Drive End Bearing Shaft Fit

0 Degrees

60 Degrees

120 Degrees

1.3785

1.3785

1.3785



62. Shaft Air Seal Fits

Drive End Air Seal

Opposite Drive End Air Seal

Pass

Mechanical Fits- Bearing Housings

63. Drive End - Endbell Bearing Fit

0 Degrees

60 Degrees

120 Degrees

4.3311

4.3311

4.3311

64. Drive End - Endbell Bearing Fit Condition

(P) Pass

P15



65. Opposite Drive End - Endbell Bearing Fit

0 Degrees

60 Degrees

120 Degrees

2.8353

2.8353

2.8353



67. Bearing Cap Condition

Drive End Bearing Cap

Opposite Drive End Bearing Cap

pass

68. End Bell Air Seal Fits

Drive End Air Seal

Opposite Drive End Air Seal

pass

69. List Machine Work Needed Below

None

70. Technician

RW

Co sign: CRW

Root Cause of Failure

71. Failure locations

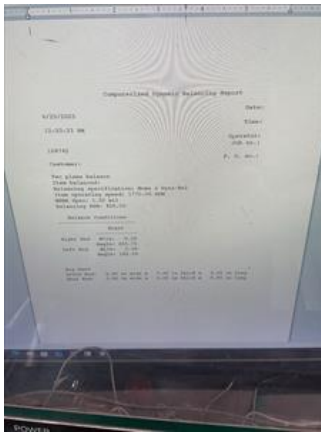
Pump seal failed and leaked water in to the motor and bearings

72. Root cause of failure

*Seal leaking causing bearing failure***Dynamic Balance Report**

Rotor Weight

Balance Grade



74. Initial Balance Readings

Drive End

Opposite Drive End

.28

.54

75. Final Balance Readings

Drive End

Opposite Drive End

.28

.54

76. Technician

RW

Assembly



77. QC Check All Parts for Cleanliness Prior to Assembly

RW

78. Photograph All Major Components prior to assembly

(Complete) Complete

P100





Start


after 15 minutes

79. Final Insulation Resistance Test

Megohms

P200



| | | | |
|--|---|--------------|------------|
| 80. | Assembled Shaft Endplay | 0 inches | |
| 81. | Assembled Shaft Runout | 0.002 inches | |
| 82. | Test Run Voltage | P500 | |
| | Volts | Volts | Volts |
|  | | | |
| 83. | Test Run Amperage | | |
| | Amps | Amps | Amps |
| | 7.1 | 6.6 | 6.9 |
| 84. | Motor RPM | (YES) YES | |
| | 1,800 | | |
| 85. | Drive End Vibration Readings - Inches Per Second | | |
| | Horizontal | Vertical | Axial |
| | 0.02 | 0.01 | 0.02 |
| 86. | Opposite Drive End Vibration Readings - Inches Per Second | | |
| | Horizontal | Vertical | Axial |
| | 0.03 | 0.05 | 0.04 |
| 87. | Ambient Temperature - Fahrenheit | | |
| 88. | Drive End Bearing Temps - Fahrenheit | | |
| | 5 Minutes | 10 Minutes | 15 Minutes |
| 89. | Opposite Drive End Bearing Temps - Fahrenheit | | |
| | 5 Minutes | 10 Minutes | 15 Minutes |

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90. Document Final Condition with Pictures after paint

see below

91. Final Pics and QC Review

Terrence Holland

P2500

[Handwritten signature]

Co sign RRW

