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

# AC Inspection as Found

**Anchor Packaging (106603)**
4708 Krueger Dr
Jonesboro, AR 72401

FolderID: 154023
FormID: 22129085

## AC Inspection - Rev. 2

**Completed by: JAMES VALENTINE on 11/05/2024**

| | |
|---|---|
| **Location:** | Mold Area |
| **Serial Number:** | 1DD405004R1 |

**Description:**500

| | |
|---|---|
| **Hi-Speed Job Number:** | 154023 |
| **Manufacturer:** | Other |
| **Serial Number:** | 1DD405004R1 |
| **HP/kW:** | 500 (HP) |
| **RPM:** | 1775 (RPM) |
| **Frame:** | L6224A |
| **Voltage:** | 460 |
| **Current:** | 60 (Amps) |
| **Phase:** | Three |
| **Hz:** | 60 (Hz) |
| **Service Factor:** | 1.15 |
| **Enclosure:** | TEFC |
| **# of Leads:** | 12 |
| **J-box Included:** | None |
| **Coupling/Sheave:** | None |
| **Date Received:** | 10/31/2024 |
| **Bearing RTDs:** | No |
| **Stator RTDs:** | No |
| **Repair Stage:** | Teardown Inspection |
| **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 |

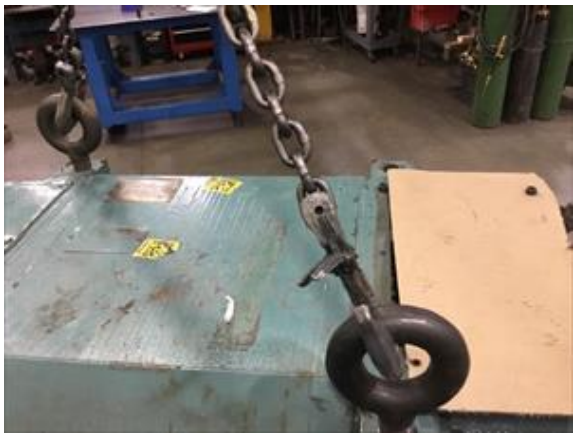
Priorities Found: **5 - High** **42 - Good**

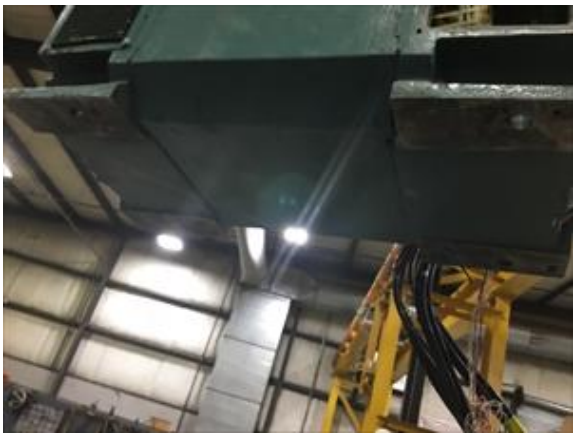
## Overall Condition

| | | | |
|---|---|---|---|
| 1. | Report Date | **10/31/2024** |

2. Nameplate Picture P2

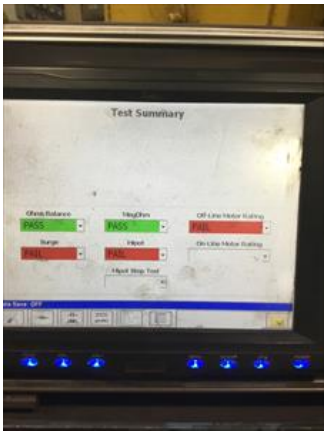
3. Photos of all six sides of the machine. P3





| | | | |
|---|---|---|---|
| | 4. | Describe the Overall Condition of the Equipment as Received<br>***Rewind*** | |
| **Initial Mechanical/Electrical** | | | |
| | 5. | Does Shaft Turn Freely? | **(Y) Yes** |
| | 6. | Does the shaft require T.I.R in Lathe to identify additional repairs? | |
| | 7. | Does Shaft Have Visible Damage? | **(No) No** |
| | 8. | Assembled Shaft Runout | **0.002 Inches** |
| | 9. | Assembled Shaft End Play | **0.004 inches** |
| | 10. | Air Gap Variation <10% | |
| | 11. | Lead Condition | **(P) Pass** |
| | 12. | Lead Length | **60 Inches** |
| | 13. | Does it have Lugs?, If so what is the Stud Size? | |
| | 14. | Lead Numbers | **1-6** |
| | 15. | Frame Condition | **good** |
| | 16. | Fan Condition | **(N) NA** |
| | 17. | Broken or Missing Components | **none** |
| **Initial Electrical Inspection** | | | |

18. Insulation Resistance/Megger **Megohms** P19

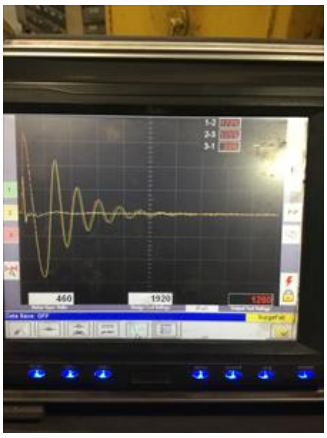





19. Winding Resistance P20

| 1-2 | 1-3 | 2-3 |
|---|---|---|


20. Perform Surge Test **(F) Fail** P21



| | | | | |
|---|---|---|---|---|
| | 21. | Number of Stator Slots | | |
| ● | 22. | Stator Condition | **good core. bad winding** | |
| | 23. | Stator Thermistors/Ohms | | |
| | 24. | Stator Overloads/Ohms | | |

## Mechanical Inspection

| | | | | |
|---|---|---|---|---|
| ● | 25. | Drive End Bearing Brand | **koyo** | P26 |

| | | | | |
|---|---|---|---|---|
| ● | 26. | Drive End Bearing Number- | **6219** | |
| ● | 27. | Drive End Bearing Qty. | **1** | |
| ● | 28. | Drive End Bearing Type | **(Ball) Ball Bearing** | |
| ● | 29. | Drive End Lubrication Type | **(Grease) Grease Lubricated** | |
| ● | 30. | Drive End Bearing Insulation or Grounding Device? | **none** | |

| | | | |
|---|---|---|---|
| 31. | Drive End Wavy Washer/Snap-Ring Other Retention Device? | **wavy washer** | P32 |

| | | | |
|---|---|---|---|
| 32. | Drive End Bearing Condition | **good** | P33 |

| | | | |
|---|---|---|---|
| 33. | Opposite Drive End Bearing Brand | **koyo** | P34 |

| | | | |
|---|---|---|---|
| 34. | Opposite Drive End Bearing Number- | **6316** | |
| 35. | Opposite Drive End Bearing Qty. | **1** | |
| 36. | Opposite Drive End Bearing Type | **(Ball) Ball Bearing** | |
| 37. | Opposite Drive End Lubrication Type | **(Grease) Grease Lubricated** | |
| 38. | Opposite Drive End Bearing Insulation or Grounding Device? | **none** | |
| 39. | Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device? | **none** | |
| 40. | Opposite Drive End Bearing Condition | **good** | P41 |

| | | |
|---|---|---|
| 41. | Drive End Seal | |
| 42. | Opposite Drive End Seal | |

## Rotor Inspection

| | | |
|---|---|---|
| 43. | Rotor Type/Material | **(Squirrel Aluminum) Squirrel Cage Aluminum Die Cast** |
| 44. | Growler Test | **(Pass) Pass** |
| 45. | Number of Rotor Bars | |
| 46. | Rotor Condition | **good** |
| 47. | List the Parts needed for the Repair Below<br>***1-6316 bearing***<br>***1-6219 bearing*** | |
| 48. | Signature of Technician that Disassembled Motor | **James Valentine** |

## Mechanical Fits- Rotor

| | | | |
|---|---|---|---|
| 49. | Shaft Runout | | |
| 50. | Rotor Runout | | |
| | Drive End Bearing Fit | Rotor Body | Opposite Drive End Bearing |
| 51. | Coupling Fit Closest to Bearing Housing | | |
| | 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 |
| | **3.7415** | **3.7415** | **3.7415** |
| | ***3.7420/3.7411*** | | |
| 54. | Drive End Bearing Shaft Fit Condition | | **(P) Pass** |

55. Opposite Drive End Bearing Shaft Fit

| 0 Degrees | 60 Degrees | 120 Degrees |
|---|---|---|
| **3.1508** | **3.1508** | **3.1508** |

*3.1511/3.1504*

56. Opposite Drive End Bearing Shaft Fit Condition **(P) Pass**

57. Shaft Air Seal Fits

| Drive End Air Seal | Opposite Drive End Air Seal |
|---|---|

## Mechanical Fits- Bearing Housings

58. Drive End - Endbell Bearing Fit

| 0 Degrees | 60 Degrees | 120 Degrees |
|---|---|---|
| **6.6929** | **6.6929** | **6.6929** |

*6.6929/6.6939*

59. Drive End - Endbell Bearing Fit Condition **(P) Pass**

60. Opposite Drive End - Endbell Bearing Fit

| 0 Degrees | 60 Degrees | 120 Degrees |
|---|---|---|
| **6.6929** | **6.6929** | **6.6929** |

*6.6929/6.6939*

61. Opposite Drive End - Endbell Bearing Fit Condition **(P) Pass**

62. Bearing Cap Condition

| Drive End Bearing Cap | Opposite Drive End Bearing Cap |
|---|---|
| **good** | **good** |

63. End Bell Air Seal Fits

| Drive End Air Seal | Opposite Drive End Air Seal |
|---|---|

64. List Machine Work Needed Below

***None***

65. Technician **James Valentine**

## Root Cause of Failure

66. Failure locations

***Winding***

67. Root cause of failure

***N/a***