

## LR Motor Shop Repairs

## **Job Number 102803**

Prepared for BAD BOY

102 INDUSTRIAL DRIVE BATESVILLE AR 72501

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AC Inspection - Rev. 2: C1503191212

1.0



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

> FolderID: 102803 FormID: 20116094

# AC Inspection as Found BAD BOY

**102 INDUSTRIAL DRIVE** BATESVILLE, AR 72501

#### AC Inspection - Rev. 2

Location: MOTOR SHOP LR Serial Number: C1503191212

Description: 50HP BALDOR 1775 RPM

| Hi-Speed Job Number:                           | 102803            |
|--|-------------------|
| Manufacturer:                                  | Baldor            |
| Product Number:                                | CAT: EM4115T      |
| Spec/ID #:                                     | 12H013Y141G1      |
| Serial Number:                                 | C1503191212       |
| HP/kW:   | 50 (HP)           |
| RPM:   | 1775 (RPM)        |
| Frame:   | 326T              |
| Voltage:                                       | 208-230/460       |
| Current:                                       | 128-116/58 (Amps) |
| Phase:   | Three             |
| Hz:  | 60 (Hz)           |
| Service Factor:                                | 1.15              |
| Enclosure:                                     | TEFC              |
| # of Leads:                                    | 9                 |
| J-box Included:                                | Complete          |
| Coupling/Sheave:                               | None              |
| Date Received:                                 | 04/29/2024        |
| Bearing RTDs:                                  | No                |
| Stator RTDs:                                   | No                |
| Repair Stage:                                  | Final             |
| Rewind:  | No                |
| Shaft Machined Fit Repairs Required:           | Yes               |
| Bearing Housing Machined Fit Repairs Required: | No                |
| Heaters:                                       | No                |
| Winding Type :                                 | Random Wound      |
| Bearing Type:                                  | Rolling Element   |
|  |                   |

Priorities Found: 1 - High

10 - Good

#### **Overall Condition**

1. Report Date 04/26/2024

#### 2. Nameplate Picture



3. Photos of all six sides of the machine.



























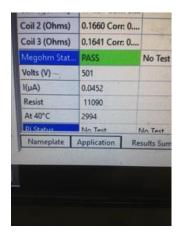


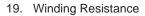






|    | 4.    | Describe the Overall Condition of the Equipment as Received           |           |
|----|-------|---|-----------|
|    |       | Dirty   |           |
| In | itial | Mechanical/Electrical   |           |
|    | 5.    | Does Shaft Turn Freely?   | (Y) Yes   |
|    | 6.    | Does the shaft require T.I.R in Lathe to identify additional repairs? | (No) No   |
|    | 7.    | Does Shaft Have Visible Damage?                                       | (No) No   |
|    | 8.    | Assembled Shaft Runout  | Inches    |
|    | -     | Na  |           |
|    | 9.    | Assembled Shaft End Play  | inches    |
|    | -     | Na  |           |
|    | 10.   | Air Gap Variation <10%  |           |
|    | -     | Na  |           |
|    | 11.   | Lead Condition  | (P) Pass  |
|    | 12.   | Lead Length   | 16 Inches |
|    | 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   | (P) Pass  |
|    | 17.   | Broken or Missing Components  | na        |
| In | itial | Electrical Inspection   |           |
|    | 18.   | Insulation Resistance/Megger  | Megohms   |
|    |       |   |           |





1-2 1-3 2-3



#### 20. Perform Surge Test

(P) Pass



| 21. Number of Stator Slots  | 48           |
|-----------------------------|--------------|
| 22. Stator Condition        | needs washed |
| 23. Stator Thermistors/Ohms |              |
| Na                          |              |
| 24. Stator Overloads/Ohms   |              |
| ■ Na                        |              |
| Mechanical Inspection       |              |





| 26. | Drive End Bearing Number-                               | 6312                       |
|-----|---|----------------------------|
| 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?       |                            |
| -   | Na  |                            |
| 31. | Drive End Wavy Washer/Snap-Ring Other Retention Device? | spanner nut                |
| 32. | Drive End Bearing Condition                             |                            |
| -   | Signs of contamination                                  |                            |



33. Opposite Drive End Bearing Brand

FAG



| 34. | Opposite Drive End Bearing Number-                               | 6311                       |
|-----|--|----------------------------|
| 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?  Na   |                            |
| 39. | Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device? | wavy washer                |
| 40. | Opposite Drive End Bearing Condition Signs of contamination      |                            |



| 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                                 | 46  |
| 46.   | Rotor Condition                                      | needs cleaned                                       |
| 47.   | List the Parts needed for the Repair Below 6312 6311 |   |





| Mecha | Mechanical Fits- Rotor                 |            |                            |  |
|-------|--|------------|----------------------------|--|
| 49.   | Shaft Runout                           |            | 0.003 inches               |  |
| 50.   | Rotor Runout                           |            |                            |  |
|       | Drive End Bearing Fit                  | Rotor Body | Opposite Drive End Bearing |  |
| -     | Na                                     |            |                            |  |
| 51.   | Coupling Fit Closest to Bearing Housi  | ng         |                            |  |
|       | 0 Degrees                              | 90 Degrees | 120 Degrees                |  |
| -     | Na                                     |            |                            |  |
| 52.   | Coupling Fit Closest to the end of the | Shaft      |                            |  |
|       | 0 Degrees                              | 60 Degrees | 120 Degrees                |  |
| -     | Na                                     |            |                            |  |
| 53.   | Drive End Bearing Shaft Fit            |            |                            |  |
|       | 0 Degrees                              | 60 Degrees | 120 Degrees                |  |
| -     | Failed<br>Bearing spun on shaft        |            |                            |  |

Cw



|   | 54.                               | Drive End Bearing Shaft Fit Condition |                             |             | (F) Fail |
|---|-----------------------------------|---------------------------------------|-----------------------------|-------------|----------|
|   | 55.                               | Opposite Drive End Bearing Shaft Fit  |                             |             |          |
|   |                                   | 0 Degrees                             | 60 Degrees                  | 120 Degrees |          |
|   |                                   | 2.1656                                | 2.1657                      | 2.1656      |          |
|   | 56.                               | Opposite Drive End Bearing Shaft Fit  | Condition                   |             | (P) Pass |
|   | 57.                               | Shaft Air Seal Fits                   |                             |             |          |
|   |                                   | Drive End Air Seal                    | Opposite Drive End Air Seal |             |          |
|   |                                   |                                       |                             |             |          |
|   | -                                 | Na                                    |                             |             |          |
| М | Mechanical Fits- Bearing Housings |                                       |                             |             |          |

| 58.          | Drive End - Endbell Bearing Fit       |                                |             |          |
|--------------|---------------------------------------|--------------------------------|-------------|----------|
|              | 0 Degrees                             | 60 Degrees                     | 120 Degrees |          |
|              | 5.1185                                | 5.1184                         | 5.1185      |          |
| <b>9</b> 59. | Drive End - Endbell Bearing Fit Condi | tion                           |             | (P) Pass |
| 60.          | Opposite Drive End - Endbell Bearing  | Fit                            |             |          |
|              | 0 Degrees                             | 60 Degrees                     | 120 Degrees |          |
|              | 4.7247                                | 4.7248                         | 4.7247      |          |
| <b>6</b> 1.  | Opposite Drive End - Endbell Bearing  | Fit Condition                  |             | (P) Pass |
| 62.          | Bearing Cap Condition                 |                                |             |          |
|              | Drive End Bearing Cap                 | Opposite Drive End Bearing Cap |             |          |
|              |                                       |                                |             |          |
| -            | Pass                                  |                                |             |          |
| 63.          | End Bell Air Seal Fits                |                                |             |          |
|              | Drive End Air Seal                    | Opposite Drive End Air Seal    |             |          |
| -            | Na                                    |                                |             |          |
| 64.          | List Machine Work Needed Below        |                                |             |          |
|              | DE shaft bearing fit                  |                                |             |          |
| 65.          | Technician  Witness: TRH              |                                |             | Cw       |
| -            | Cause of Failure                      |                                |             |          |
|              | Failure locations                     |                                |             |          |
| 00.          | Bearings and DE shaft bearing fit     |                                |             |          |
| 67           | Root cause of failure                 |                                |             |          |
| 01.          | Wear and contamination and mixed gre  | ase                            |             |          |
| Dynar        |                                       |                                |             |          |
| ynarر        | ynamic Balance Report                 |                                |             |          |



Rotor Weight

68. Rotor Weight and Balance Grade

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Balance Grade

| 69. | Initial Balance Readings |                    |    |
|-----|--------------------------|--------------------|----|
|     | Drive End                | Opposite Drive End |    |
|     | 0.59                     | 1.28               |    |
| 70. | Final Balance Readings   |                    |    |
|     | Drive End                | Opposite Drive End |    |
|     | 0.24                     | 0.37               |    |
| 71. | Technician               |                    | RW |





| Mecha | anical Fits- Rotor - Post Repair       |                   |                            |
|-------|--|-------------------|----------------------------|
| 72.   | Shaft Runout Post Repair               |                   | inches                     |
| 73.   | Rotor Runout Post Repair               |                   |                            |
|       | Drive End Bearing Fit                  | Rotor Body        | Opposite Drive End Bearing |
|       |  |                   |                            |
| 74.   | Coupling Fit Closest to Bearing Housi  | ng Post Repair    |                            |
|       | 0 Degrees                              | 90 Degrees        | 120 Degrees                |
|       |  |                   |                            |
| 75.   | Coupling Fit Closest to the end of the | Shaft Post Repair |                            |
|       | 0 Degrees                              | 60 Degrees        | 120 Degrees                |
|       |  |                   |                            |
| 76.   | Drive End Bearing Shaft Fit Post Repa  | air               |                            |
|       | 0 Degrees                              | 60 Degrees        | 120 Degrees                |
|       | 2.3629                                 | 2.3629            | 2.3629                     |



| 77. Opposite Drive End Bearing Shaft Fit Post Repair |                        |             |
|--|------------------------|-------------|
| 0 Degrees  | 60 Degrees             | 120 Degrees |
|  |                        |             |
| 78. Shaft Air Seal Fits Post Repa                    | air                    |             |
| Drive End Air Seal                                   | Opposite Drive End Air | Seal        |
|  |                        |             |



#### **Assembly**

80. QC Check All Parts for Cleanliness Prior to Assembly

RW



81. Photograph All Major Components prior to assembly

(Complete) Complete









| 82. | Final Insulation Resistance Test | Megohms      |
|-----|----------------------------------|--------------|
| -   | HP passed                        |              |
| 83. | Assembled Shaft Endplay          | inches       |
| 84. | Assembled Shaft Runout           | 0.001 inches |

| 85. Test Run Voltage | . Test Run Voltage |       |  |  |  |
|----------------------|--------------------|-------|--|--|--|
| Volts                | Volts              | Volts |  |  |  |
| 457                  | 456                | 459   |  |  |  |



| 86. Test Run Amperage | Test Run Amperage |      |  |  |  |  |
|-----------------------|-------------------|------|--|--|--|--|
| Amps                  | Amps              | Amps |  |  |  |  |
| 21.2                  | 21.2              | 21.2 |  |  |  |  |



#### Co witness CRW

| 87. | Drive End Vibration Readings - Inches Per Second  |            |            |  |  |
|-----|---|------------|------------|--|--|
|     | Horizontal  | Vertical   | Axial      |  |  |
|     | 0.02  | 0.04       | 0.04       |  |  |
| 88. | Opposite Drive End Vibration Reading              |            |            |  |  |
|     | Horizontal  | Vertical   | Axial      |  |  |
|     | 0.05  | 0.04       | 0.04       |  |  |
| 89. | Ambient Temperature - Fahrenheit                  |            |            |  |  |
| 90. |   |            |            |  |  |
|     | 5 Minutes   | 10 Minutes | 15 Minutes |  |  |
|     |   |            |            |  |  |
| 91. | 91. Opposite Drive End Bearing Temps - Fahrenheit |            |            |  |  |
|     | 5 Minutes   | 10 Minutes | 15 Minutes |  |  |
|     |   |            |            |  |  |
| 92. |   |            |            |  |  |







93. Final Pics and QC Review

RW

Co witness CRW



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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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