

# LR Motor Shop Repairs

## **Job Number 101560**

Prepared for FUTURE FUEL CHEMICAL

2800 GAP RD HWY 394 SO BATESVILLE AR 72501

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AC Inspection as Found - MOTOR SHOP LR

AC Inspection - Rev. 2: NO SN

1.0



FolderID: 101560 FormID: 17188138



#### **AC Inspection as Found FUTURE FUEL CHEMICAL** 2800 GAP RD HWY 394 SO

BATESVILLE, AR 72501

AC Inspection - Rev. 2

Location: MOTOR SHOP LR

Serial Number: NO SN

Description:75HP BALDOR 1200RPM 405LPZ

| Hi-Speed Job Number: | 101560          |
|----------------------|-----------------|
| Manufacturer:        | Baldor          |
| Product Number:      | A40-1168-0-62   |
| HP/kW:               | 75 (HP)         |
| RPM:                 | 1185 (RPM)      |
| Frame:               | 405LPZ          |
| Voltage:             | 460             |
| Current:             | 86.9            |
| Phase:               | Three           |
| Hz:                  | 60 (Hz)         |
| Service Factor:      | 1.00            |
| Enclosure:           | TEFC            |
| J-box Included:      | Complete        |
| Coupling/Sheave:     | Propeller       |
| Bearing RTDs:        | No              |
| Stator RTDs:         | No              |
| Repair Stage:        | Final           |
| Heaters:             | No              |
| Bearing Type:        | Rolling Element |

Priorities Found: 8 - High

3 - Good

#### **Overall Condition**

- Report Date
- 2. Nameplate Picture
- Photos of all six sides of the machine.





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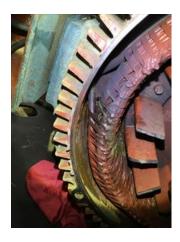


























 Describe the Overall Condition of the Equipment as Received Dirty

5. Distance from the end of the shaft to the Coupling/Sheave

#### **Initial Mechanical/Electrical**

Does Shaft Turn Freely? (Yes) YesDoes Shaft Have Visible Damage? (Yes) Yes



| 8.                    | Assembled Shaft Runout       |     |                     |
|-----------------------|------------------------------|-----|---------------------|
| 9.                    | Assembled Shaft End Play     |     |                     |
| 10.                   | Air Gap Variation <10%       |     |                     |
| 11.                   | Lead Condition               |     | (NA) Not Applicable |
| -                     | Rewind                       |     |                     |
| 12.                   | Lead Length                  |     | 16 Inches           |
| 13.                   | Frame Condition              |     |                     |
| <ul><li>14.</li></ul> | Fan Condition                |     | (P) Pass            |
| 15.                   | Broken or Missing Components |     | na                  |
| Initial               | Electrical Inspection        |     |                     |
| 16.                   | Insulation Resistance/Megger |     |                     |
| 17.                   | Winding Resistance           |     |                     |
|                       | 1-2                          | 1-3 | 2-3                 |
|                       |                              |     |                     |

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| 19.  | Number of Stator Slots   |                            |
|------|--|----------------------------|
| 20.  | Stator Condition   |                            |
| 21.  | Stator Thermistors/Ohms  |                            |
| 22.  | Stator Overloads/Ohms  |                            |
| Mech | anical Inspection  |                            |
| 23.  | Drive End Bearing Brand  |                            |
| 24.  | Drive End Bearing Number-  | 5316C3                     |
| 25.  | Drive End Bearing Qty.   | 1                          |
| 26.  | Drive End Bearing Type   | (Other) Other              |
| 27.  | Drive End Lubrication Type                                       | (Grease) Grease Lubricated |
| 28.  | Drive End Bearing Insulation or Grounding Device?                |                            |
| 29.  | Drive End Wavy Washer/Snap-Ring Other Retention Device?          | lock nut                   |
| 30.  | Drive End Bearing Condition                                      |                            |
| 31.  | Opposite Drive End Bearing Brand                                 |                            |
| 32.  | Opposite Drive End Bearing Number-                               | 6313                       |
| 33.  | Opposite Drive End Bearing Qty.                                  | 1                          |
| 34.  | Opposite Drive End Bearing Type                                  | (Ball) Ball Bearing        |
| 35.  | Opposite Drive End Lubrication Type                              | (Grease) Grease Lubricated |
| 36.  | Opposite Drive End Bearing Insulation or Grounding Device?       |                            |
| 37.  | Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device? | wavy washer                |
| 38.  | Opposite Drive End Bearing Condition                             |                            |

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| <b>3</b> 9. | Drive End Seal  |                             | 72-7-2   |
|-------------|---|-----------------------------|--|
| -           | Worn  |                             |  |
|             | Opposite Drive End Seal   |                             |  |
| Rotor       | Inspection  |                             |  |
| 41.         | Rotor Type/Material   |                             | (Squirrel Aluminum) Squirrel<br>Cage Aluminum Die Cast |
| 42.         | Growler Test  |                             | (Pass) Pass  |
| 43.         | Number of Rotor Bars  |                             |  |
| 44.         | Rotor Condition   |                             |  |
| <b>4</b> 5. | List the Parts needed for the Repair B<br>5316<br>6313<br>New shaft<br>New insert | elow                        |  |
| 46.         | Signature of Technician that Disasser   | nbled Motor                 | Cw   |
| Mecha       | anical Fits- Rotor  |                             |  |
| 47.         | Shaft Runout  |                             |  |
| 48.         | Rotor Runout  |                             |  |
|             | Drive End Bearing Fit   | Rotor Body                  | Opposite Drive End Bearing                             |
| 49.         | Coupling Fit Closest to Bearing Housi   | ng                          |  |
|             | 0 Degrees   | 90 Degrees                  | 120 Degrees  |
| <b>50</b>   |   | Chaff                       |  |
| 50.         | 1 0   |                             | 400 Danier   |
|             | 0 Degrees   | 60 Degrees                  | 120 Degrees  |
| 51.         | Drive End Bearing Shaft Fit   |                             |  |
|             | 0 Degrees   | 60 Degrees                  | 120 Degrees  |
|             | 0 2 0g. 000   | 00 209.000                  | 0 _09.000  |
| 52.         | Drive End Bearing Shaft Fit Condition   |                             | (NA) Not Applicable                                    |
| 53.         | Opposite Drive End Bearing Shaft Fit  |                             |  |
|             | 0 Degrees   | 60 Degrees                  | 120 Degrees  |
| 54.         | Opposite Drive End Bearing Shaft Fit  | Condition                   | (NA) Not Applicable                                    |
| 55.         |   |                             | , ,  |
|             | Drive End Air Seal  | Opposite Drive End Air Seal |  |
| Mooh        | anical Fits- Bearing Housings   |                             |  |
|             | Drive End - Endbell Bearing Fit   |                             |  |
| 50.         | •   | 60 Dogroop                  | 120 Dograda  |
|             | 0 Degrees   | 60 Degrees                  | 120 Degrees  |
| -           | 6.6945  |                             |  |
|             |   |                             |  |

57. Drive End - Endbell Bearing Fit Condition

(F) Fail

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| 58.        | Opposite Drive End - Endbell Bearing                                  | ; Fit                          |             |  |
|------------|---|--------------------------------|-------------|--|
|            | 0 Degrees   | 60 Degrees                     | 120 Degrees |  |
|            |   |                                |             |  |
| -          | 5.5128 <i>x</i> 2<br>5.5127   |                                |             |  |
| 59.        | Opposite Drive End - Endbell Bearing                                  | Fit Condition                  | (P) Pass    |  |
| 60.        | Bearing Cap Condition   |                                |             |  |
|            | Drive End Bearing Cap   | Opposite Drive End Bearing Cap |             |  |
|            |   |                                |             |  |
| -          | Pass  |                                |             |  |
| 61.        | End Bell Air Seal Fits  |                                |             |  |
|            | Drive End Air Seal  | Opposite Drive End Air Seal    |             |  |
| <b>6</b> 2 | List Machine Work Needed Polesy                                       |                                |             |  |
| 02.        | List Machine Work Needed Below  New shaft and DE end bell bearing fit |                                |             |  |
| 63         | Technician  |                                | Cw          |  |
| 03.        | recimician  |                                | CW          |  |
|            | $/ \wedge \wedge$   |                                |             |  |
|            | ////  | _                              |             |  |
| l          |   |                                |             |  |
|            |   |                                |             |  |
| _          | mic Balance Report  |                                |             |  |
| 64.        | Rotor Weight and Balance Grade  |                                |             |  |
|            | Rotor Weight  | Balance Grade                  |             |  |
| 65.        | Initial Balance Readings  |                                |             |  |
| 00.        | Drive End   | Opposite Drive End             |             |  |
|            | 2.110   | opposito Divo Liiu             |             |  |
| 66.        | Final Balance Readings  |                                |             |  |
|            | Drive End   | Opposite Drive End             |             |  |
|            |   |                                |             |  |
| 67.        | Technician  |                                |             |  |
| Rewi       |   |                                |             |  |
| 68.        | Core Test Results - Watts loss per Po                                 |                                |             |  |
|            | Pre-Burnout   | Post Burnout                   |             |  |
| 60         | Core Hot Spot Test  |                                |             |  |
| 03.        | Pre-Burnout   | Post-Burnout                   |             |  |
|            | 1 to Bulliout   | 1 ost Dumout                   |             |  |
| 70.        | Post Rewind Electrical Test- Insulation                               | n Resistance                   |             |  |
| 71.        | Post Rewind Polarization Index  |                                |             |  |
| 72.        | Post Rewind Winding Resistance  |                                |             |  |
|            | 1-2   | 1-3                            | 2-3         |  |
|            |   |                                |             |  |
| 73.        | Post Rewind Surge Test  |                                |             |  |
| 74.        | Post Rewind Hi-Pot  |                                |             |  |
|            | Technician  |                                |             |  |
| Root       | Cause of Failure  |                                |             |  |
| 76.        | Failure locations   |                                |             |  |
|            | Bearings, shaft, windings, and insert                                 |                                |             |  |

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| 77    | Root cause of failure                  |                                |                             |
|-------|--|--------------------------------|-----------------------------|
| 11.   | Water, wear, and contamination         |                                |                             |
| Maak  |  |                                |                             |
|       | anical Fits- Rotor - Post Repair       |                                |                             |
|       | Shaft Runout Post Repair               |                                |                             |
| 79.   | Rotor Runout Post Repair               | Deter Ded.                     | Opposite Drive Fuel Bearing |
|       | Drive End Bearing Fit                  | Rotor Body                     | Opposite Drive End Bearing  |
| 80.   | Coupling Fit Closest to Bearing Hous   | ing Post Repair                |                             |
|       | 0 Degrees                              | 90 Degrees                     | 120 Degrees                 |
|       | 0 D0g.000                              | 00 D0g1000                     | 120 Dog1000                 |
| 81.   | Coupling Fit Closest to the end of the | Shaft Post Repair              |                             |
|       | 0 Degrees                              | 60 Degrees                     | 120 Degrees                 |
|       |  |                                |                             |
| 82.   | Drive End Bearing Shaft Fit Post Rep   |                                |                             |
|       | 0 Degrees                              | 60 Degrees                     | 120 Degrees                 |
| δa    | Opposite Drive End Bearing Shaft Fit   | Poet Renair                    |                             |
| 03.   | 0 Degrees                              | 60 Degrees                     | 120 Degrees                 |
|       | o Dogrees                              | oo begrees                     | 120 Deglees                 |
| 84.   | Shaft Air Seal Fits Post Repair        |                                |                             |
|       | Drive End Air Seal                     | Opposite Drive End Air Seal    |                             |
|       |  |                                |                             |
|       | Shaft Repair Sign-off                  |                                |                             |
|       | anical Fits- Bearing Housings - F      | -                              |                             |
| 86.   | Drive End - Endbell Bearing Fit Post   | ·                              |                             |
|       | 0 Degrees                              | 60 Degrees                     | 120 Degrees                 |
| 87    | Opposite Drive End - Endbell Bearing   | r Fit Poet Repair              |                             |
| 07.   | 0 Degrees                              | 60 Degrees                     | 120 Degrees                 |
|       | 0 Degrees                              | 00 Degrees                     | 120 Degrees                 |
| 88.   | Bearing Cap Condition Post Repair      |                                |                             |
|       | Drive End Bearing Cap                  | Opposite Drive End Bearing Cap |                             |
|       |  |                                |                             |
| 89.   | End Bell Air Seal Fits Post Repair     |                                |                             |
|       | Drive End Air Seal                     | Opposite Drive End Air Seal    |                             |
| 90    | End Bell Repair Sign-off               |                                |                             |
| Asser | · · · · · · · · · · · · · · · · · · ·  |                                |                             |
|       | QC Check All Parts for Cleanliness P   | rior to Assembly               |                             |
| 92.   | Photograph All Major Components pr     | •                              |                             |
| 93.   | Final Insulation Resistance Test       |                                |                             |
|       | Assembled Shaft Endplay                |                                |                             |
| 95.   |  |                                |                             |
| 96.   | Test Run Voltage                       |                                |                             |
|       | Volts                                  | Volts                          | Volts                       |
|       |  |                                |                             |
| 97.   | Test Run Amperage                      |                                |                             |
|       | Amps                                   | Amps                           | Amps                        |
|       |  |                                |                             |

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| 98. Drive End Vibration Readings - Inches Per Second Horizontal  99. Opposite Drive End Vibration Readings - Inches Per Second Horizontal  Vertical  100. Ambient Temperature - Fahrenheit 101. Drive End Bearing Temps - Fahrenheit 5 Minutes  102. Opposite Drive End Bearing Temps - Fahrenheit 5 Minutes  103. Stator Temperatures- Fahrenheit | Axial Axial 15 Minutes |
|--|------------------------|
| 99. Opposite Drive End Vibration Readings - Inches Per Second Horizontal  100. Ambient Temperature - Fahrenheit 101. Drive End Bearing Temps - Fahrenheit 5 Minutes  102. Opposite Drive End Bearing Temps - Fahrenheit 5 Minutes  10 Minutes  | Axial                  |
| Horizontal  Vertical  100. Ambient Temperature - Fahrenheit  101. Drive End Bearing Temps - Fahrenheit  5 Minutes  10 Minutes  102. Opposite Drive End Bearing Temps - Fahrenheit  5 Minutes  10 Minutes   |                        |
| Horizontal  Vertical  100. Ambient Temperature - Fahrenheit  101. Drive End Bearing Temps - Fahrenheit  5 Minutes  10 Minutes  102. Opposite Drive End Bearing Temps - Fahrenheit  5 Minutes  10 Minutes   |                        |
| <ul> <li>100. Ambient Temperature - Fahrenheit</li> <li>101. Drive End Bearing Temps - Fahrenheit</li> <li>5 Minutes</li> <li>10 Minutes</li> <li>102. Opposite Drive End Bearing Temps - Fahrenheit</li> <li>5 Minutes</li> <li>10 Minutes</li> </ul>   |                        |
| 101. Drive End Bearing Temps - Fahrenheit 5 Minutes 10 Minutes  102. Opposite Drive End Bearing Temps - Fahrenheit 5 Minutes 10 Minutes  | 15 Minutes             |
| 101. Drive End Bearing Temps - Fahrenheit 5 Minutes 10 Minutes  102. Opposite Drive End Bearing Temps - Fahrenheit 5 Minutes 10 Minutes  | 15 Minutes             |
| 5 Minutes 10 Minutes  102. Opposite Drive End Bearing Temps - Fahrenheit 5 Minutes 10 Minutes  | 15 Minutes             |
| 102. Opposite Drive End Bearing Temps - Fahrenheit 5 Minutes 10 Minutes  | 15 Minutes             |
| 5 Minutes 10 Minutes   |                        |
| 5 Minutes 10 Minutes   |                        |
|  |                        |
| 103 Stator Temperatures, Fahrenheit  | 15 Minutes             |
| 103 Stator Temperatures- Fahrenheit  |                        |
| 103. Stator remperatures- ramemen  |                        |
| 5 Minutes 10 Minutes   | 15 Minutes             |
|  |                        |
| 104. Document Final Condition with Pictures after paint  |                        |
| 105. Final Pics and QC Review  |                        |

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- 10. <u>SEVERABILITY.</u> The partial or complete invalidity of any provision of these Standard Terms and Conditions shall not affect the enforceability of the remainder of these Standard Terms and Conditions. If any provision is found to be invalid or unenforceable, that portion shall be modified to make it enforceable or shall be stricken and the remainder of these Standard Terms and Conditions shall enforced.
- 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. ABANDONED EQUIPMENT. 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.
- 15. **ASSIGNMENT.** The rights and obligations of the parties shall neither be assigned nor delegated without the prior written consent of the other party. However, any party may assign or delegate its respective rights and obligations, in whole or in part, (i) to any subsidiary, (ii) pursuant to other financing, merger or reorganization or (iii) pursuant to any sale or transfer of substantially all of the assets of the assigning party. These Standard Terms and Conditions shall bind the heirs, successors and assigns of the parties hereto.
- 16. NO INDIVIDUAL LIABILITY. Notwithstanding any other agreement to the contrary, the Buyer agrees that in no event will the Buyer hold and HI-Speed owner, director, officer or employee personally liable for unintentional tortious conduct or conduct that constitutes the breach of any contract between HI-Speed and the Buyer, even if the HI-Speed owner, director, officer or employee is or could be construed to be a party to such contract.