

# LR Motor Shop Repairs

## **Job Number 103734**

Prepared for Custom Craft Poultry

3064 E Main St Batesville AR 72501

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AC Inspection as Found - Shop

AC Inspection - Rev. 2: AEC19605-1

1.0



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> FolderID: 103734 FormID: 22201954

### **AC Inspection as Found**

**Custom Craft Poultry** 3064 E Main St Batesville, AR 72501

AC Inspection - Rev. 2

Location: Shop Serial Number: AEC19605-1

Description:250HP TECO 3600RPM 445TS

| Hi-Speed Job Number:                           | 102357            |
|--|-------------------|
| Manufacturer:                                  | TECO Westinghouse |
| Product Number:                                | D2502             |
| Serial Number:                                 | AEC19605-1        |
| HP/kW:   | 250 (HP)          |
| RPM:   | 3550 (RPM)        |
| Frame:   | 445TS             |
| Voltage:                                       | 460               |
| Current:                                       | 279               |
| Phase:   | Three             |
| Hz:  | 60 (Hz)           |
| Service Factor:                                | 1.15              |
| Enclosure:                                     | ODP               |
| # of Leads:                                    | 6                 |
| J-box Included:                                | None              |
| Coupling/Sheave:                               | None              |
| 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: 2 - High

7 - Good

#### **Overall Condition**

1. Report Date 11/13/2024

#### 2. Nameplate Picture



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































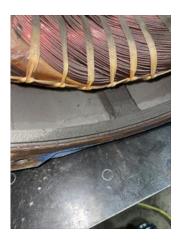
































9. Assembled Shaft End Play







0.001 inches

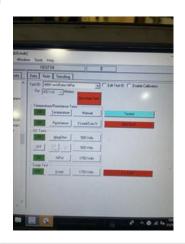
4. Describe the Overall Condition of the Equipment as Received *Motor is shorted.* 

| Initial Mechanical/Electrical |    | Mechanical/Electrical   |
|-------------------------------|----|-------------------------|
|                               | 5. | Does Shaft Turn Freely? |

| 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  | 0.001 Inches |

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| 10. Air Gap Variation <10%    |   |            |       |           |
|-------------------------------|---|------------|-------|-----------|
| 10.                           | •                                       |            |       |           |
| -                             | Na                                      |            |       |           |
| 11.                           | 11. Lead Condition (P) Pa               |            |       | (P) Pass  |
| 12.                           | Lead Length                             |            |       | 15 Inches |
| 13.                           | Does it have Lugs?, If so what is the S | Stud Size? |       |           |
| -                             | 1/0 lugs                                |            |       |           |
| 14.                           | Lead Numbers                            |            |       | 1-6       |
| 15. Frame Condition           |   |            | Good  |           |
| 16.                           | Fan Condition                           |            |       | (N) NA    |
| 17.                           | 17. Broken or Missing Components        |            | No    |           |
| Initial Electrical Inspection |   |            |       |           |
| 18.                           | Insulation Resistance/Megger            |            |       | 0 Megohms |
| 19.                           | Winding Resistance                      |            |       |           |
|                               | 1-2                                     | 1-3        | 2-3   |           |
|                               | .0200                                   | .0201      | .0216 |           |





20. Perform Surge Test(F) Fail



| 21. | Number of Stator Slots  | 48     |
|-----|-------------------------|--------|
| 22. | Stator Condition        | Rewind |
| 23. | Stator Thermistors/Ohms |        |
| -   | Na                      |        |
| 24. | Stator Overloads/Ohms   |        |
| -   | Na                      |        |

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| Mechanical Inspection |  |                                 |  |  |
|-----------------------|--|---------------------------------|--|--|
|                       | •  |                                 | NTN  |  |
|                       | Drive End Bearing Brand                                |                                 |  |  |
| 26.                   | Drive End Bearing Number-                              |                                 | 6314c3   |  |
| 27.                   | Drive End Bearing Qty.                                 |                                 | 1  |  |
| 28.                   | Drive End Bearing Type                                 |                                 | (Ball) Ball Bearing                                    |  |
| 29.                   | Drive End Lubrication Type                             |                                 | (Grease) Grease Lubricated                             |  |
| 30.                   | <u> </u>   | •                               | No   |  |
| 31.                   | Drive End Wavy Washer/Snap-Ring (                      | Other Retention Device?         | no   |  |
| 32.                   | Drive End Bearing Condition                            |                                 | worn   |  |
| 33.                   | Opposite Drive End Bearing Brand                       |                                 | FAG  |  |
| 34.                   | Opposite Drive End Bearing Number-                     |                                 | 6314 c3  |  |
| 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                  | n or Grounding Device?          | No   |  |
| 39.                   | Opposite Drive End Wavy Washer/Sn                      | ap-Ring Other Retention Device? | No   |  |
| 40.                   | Opposite Drive End Bearing Condition                   | 1                               | worn   |  |
| 41.                   | Drive End Seal   |                                 |  |  |
| -                     | Na   |                                 |  |  |
| 42.                   | Opposite Drive End Seal                                |                                 |  |  |
| -                     | Na   |                                 |  |  |
| Rotor                 | Inspection   |                                 |  |  |
| 43.                   | Rotor Type/Material                                    |                                 | (Squirrel Aluminum) Squirrel<br>Cage Aluminum Die Cast |  |
| 44.                   | Growler Test   |                                 | (Pass) Pass  |  |
| 45.                   | Number of Rotor Bars                                   |                                 | 40   |  |
| 46.                   | Rotor Condition  |                                 | Good   |  |
| 47.                   | List the Parts needed for the Repair E                 | elow                            |  |  |
|                       | 6314 2zc3 bearing quantity of 2. Rewind                | l stator                        |  |  |
| 48.                   | Signature of Technician that Disasser                  | nbled Motor                     | Trevor Hall  |  |
| Mech                  | anical Fits- Rotor                                     |                                 |  |  |
| 49.                   | Shaft Runout   |                                 | 0.001 inches   |  |
| 50.                   | Rotor Runout   |                                 |  |  |
|                       | Drive End Bearing Fit                                  | Rotor Body                      | Opposite Drive End Bearing                             |  |
|                       | 0.002  | 0.002                           | 0.002  |  |
| 51.                   | Coupling Fit Closest to Bearing Housi                  |                                 |  |  |
| Ų                     | 0 Degrees  | 90 Degrees                      | 120 Degrees  |  |
|                       | 2.3738   | 2.3738                          | 2.3738   |  |
|                       |  |                                 | 2.37 30  |  |
| E2                    | Coupling Eit Classet to the and of the                 |                                 |  |  |
| 52.                   | Coupling Fit Closest to the end of the                 |                                 | 120 Dograce  |  |
| 52.                   | Coupling Fit Closest to the end of the 0 Degrees 2.372 | 60 Degrees 2.3729               | 120 Degrees<br>2.3724                                  |  |

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|    | <b>5</b> 0 | Drive Ford Decrine Chaft Fit                         |                                |                       |             |
|----|------------|--|--------------------------------|-----------------------|-------------|
|    | 53.        | Drive End Bearing Shaft Fit                          | 00 D                           | 100 D                 |             |
|    |            | 0 Degrees  | 60 Degrees                     | 120 Degrees           |             |
|    | <b>5</b> 4 | 2.7561   | 2.7562                         | 2.7562                | (D) D       |
|    |            | Drive End Bearing Shaft Fit Condition                |                                |                       | (P) Pass    |
|    | 55.        | Opposite Drive End Bearing Shaft Fit                 | 00 0                           | 400 D                 |             |
|    |            | 0 Degrees  | 60 Degrees                     | 120 Degrees           |             |
|    | _          | 2.7562   | 2.7561                         | 2.7562                |             |
|    | <b>F</b> 0 | Good   | O and dising                   |                       | (D) D       |
|    | 56.        | 11 9   | Condition                      |                       | (P) Pass    |
|    | 57.        | Shaft Air Seal Fits                                  | Opposite Drive Find Air Cool   |                       |             |
|    |            | Drive End Air Seal                                   | Opposite Drive End Air Seal    |                       |             |
| R. | laaba      | good   | good                           |                       |             |
| IV |            | anical Fits- Bearing Housings                        |                                |                       |             |
|    | 56.        | Drive End - Endbell Bearing Fit                      | CO Degrees                     | 100 Dagraga           |             |
|    |            | 0 Degrees  | 60 Degrees                     | 120 Degrees           |             |
|    | F0         | <b>5.9058</b> Drive End - Endbell Bearing Fit Condit | 5.9056                         | 5.9057                | (D) Door    |
|    |            | Opposite Drive End - Endbell Bearing                 |                                |                       | (P) Pass    |
|    | 60.        | ·· -   |                                | 120 Dograda           |             |
|    |            | 0 Degrees<br>5.9058                                  | 60 Degrees 5.9058              | 120 Degrees<br>5.9057 |             |
|    | 61         | Opposite Drive End - Endbell Bearing                 |                                | 5.9057                | (P) Pass    |
|    |            | Bearing Cap Condition                                | Fit Condition                  |                       | (F) Fd55    |
|    | 02.        | Drive End Bearing Cap                                | Opposite Drive End Bearing Cap |                       |             |
|    |            | good   | good                           |                       |             |
|    | 63         | End Bell Air Seal Fits                               | good                           |                       |             |
|    | 00.        | Drive End Air Seal                                   | Opposite Drive End Air Seal    |                       |             |
|    |            | good   | good                           |                       |             |
|    | 64.        | List Machine Work Needed Below                       |                                |                       |             |
|    |            | Na   |                                |                       |             |
|    | 65.        | Technician   |                                |                       | Trevor Hall |
|    |            |  |                                |                       |             |
|    | 7          |  |                                |                       |             |
|    |            | / - 7///   |                                |                       |             |
|    | /          | / //de   |                                |                       |             |
|    | -          | Co sign: CRW   |                                |                       |             |
| R  | oot (      | Cause of Failure                                     |                                |                       |             |
|    | 66.        | Failure locations                                    |                                |                       |             |
|    |            | Windings and bearings                                |                                |                       |             |
|    | 67.        | Root cause of failure                                |                                |                       |             |
|    |            | Shorted windings                                     |                                |                       |             |
| D  | ynan       | nic Balance Report                                   |                                |                       |             |
|    | 68.        | Rotor Weight and Balance Grade                       |                                |                       |             |
|    |            | Rotor Weight   | Balance Grade                  |                       |             |
|    |            |  |                                |                       |             |
|    | 69.        | Initial Balance Readings                             |                                |                       |             |
|    |            | Drive End  | Opposite Drive End             |                       |             |
|    |            |  |                                |                       |             |

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| 70  | D. Final Balance Readings                                      |                     |            |  |
|---|--|---------------------|------------|--|
| 70.   | Drive End  | Opposite Drive End  |            |  |
|   | Drive Life   | Opposite Drive Lift |            |  |
| 71.   | Technician   |                     |            |  |
| Rewin   | nd   |                     |            |  |
|   | 72. Core Test Results - Watts loss per Pound                   |                     |            |  |
|   | Pre-Burnout  | Post Burnout        |            |  |
|   | To Bulliout  | T cot Bulliout      |            |  |
| 73.   | Core Hot Spot Test   |                     |            |  |
|   | Pre-Burnout  | Post-Burnout        |            |  |
|   |  |                     |            |  |
| 74.   | Post Rewind Electrical Test- Insulation                        | n Resistance        |            |  |
| 75.   | Post Rewind Polarization Index                                 |                     |            |  |
| 76.   | Post Rewind Winding Resistance                                 |                     |            |  |
|   | 1-2  | 1-3                 | 2-3        |  |
|   |  |                     |            |  |
|   | Post Rewind Surge Test   |                     |            |  |
| 78.   |  |                     |            |  |
|   | Technician   |                     |            |  |
| Asser   | •  |                     |            |  |
| 80.   | QC Check All Parts for Cleanliness Pr                          | •                   |            |  |
| 81.   | <b>0</b> 1 1 1   | or to assembly      |            |  |
|   | Final Insulation Resistance Test                               |                     |            |  |
|   | Assembled Shaft Endplay  |                     |            |  |
|   | Assembled Shaft Runout   |                     |            |  |
| 85.   | Test Run Voltage   |                     |            |  |
|   | Volts  | Volts               | Volts      |  |
| 06  | Toot Dun Amnorogo  |                     |            |  |
| 00.   | Test Run Amperage  | A man a             | Avene      |  |
|   | Amps   | Amps                | Amps       |  |
| 87.   | Drive End Vibration Readings - Inches                          | Per Second          |            |  |
| 0   | Horizontal   | Vertical            | Axial      |  |
|   | Tionzoma.  | Volume              | / Bildi    |  |
| 88. Opposite Drive End Vibration Readings - Inches Per Second |  |                     |            |  |
|   | Horizontal   | Vertical            | Axial      |  |
|   |  |                     |            |  |
| 89.   | 89. Ambient Temperature - Fahrenheit                           |                     |            |  |
| 90.   | Drive End Bearing Temps - Fahrenhei                            | t                   |            |  |
|   | 5 Minutes  | 10 Minutes          | 15 Minutes |  |
|   |  |                     |            |  |
| 91.   | Opposite Drive End Bearing Temps -                             |                     |            |  |
|   | 5 Minutes  | 10 Minutes          | 15 Minutes |  |
| 02  | Document Final Condition with Dicture                          | oc after paint      |            |  |
| 92.   | Document Final Condition with Picture Final Pics and QC Review | εο απει μαιπι       |            |  |
| 93.   | Final Fics and QC Review                                       |                     |            |  |

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- 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. <u>ASSIGNMENT.</u> 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.