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— EVERY DAY SINCE 1946 —

Motor Shop Repairs

**Job Number 100038**

Prepared for Twin Rivers (12049)

3501 Jefferson Parkway  
Pine Bluff AR 71602

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AC Recondition As Found - *Shop*

AC Recondition - Rev. 2: *WOUND ROTOR HOIST MOTOR*

**1.0**

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*Printed on 7/18/2022*

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Hi-Speed Industrial Service  
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901-873-5300

## AC Recondition As Found

**Twin Rivers (12049)**  
3501 Jefferson Parkway  
Pine Bluff, AR 71602

FolderID: 100038  
FormID: 14050151

### AC Recondition - Rev. 2

**Location:** Shop  
**Serial Number:** WOUND ROTOR HOIST MOTOR  
**Description:** WOUND ROTOR HOIST MOTOR

**Hi-Speed Job Number:** 100038

**Manufacturer:** Other

**Phase:** Three

**Hz:** 60 (Hz)

**Coupling/Sheave:** None

**Date Received:** 07/11/2022

**Bearing RTDs:** No


**Stator RTDs:** No

**Repair Stage:** Teardown Inspection

**Heaters:** No

**Winding Type :** Random Wound

**Bearing Type:** Rolling Element

Priorities Found:  1 - Good

### Overall Condition

1. Report Date
2. Nameplate Picture



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*Rewind*



|  |                     |
|--|---------------------|
| 3. Describe the Overall Condition of the Equipment as Received |                     |
| <b>Initial Mechanical/Electrical</b>                           |                     |
| 4. Does Shaft Turn Freely?                                     |                     |
| 5. Does Shaft Have Visible Damage?                             |                     |
| 6. Assembled Shaft Runout                                      |                     |
| 7. Assembled Shaft End Play                                    |                     |
| 8. Air Gap Variation <10%                                      |                     |
| 9. Lead Condition  | (NA) Not Applicable |

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|                     |          |
|---------------------|----------|
| 10. Lead Length     | 6 Inches |
| 11. Frame Condition | pass     |




|                                      |         |
|--------------------------------------|---------|
| 12. Fan Condition                    | (N) NA  |
| 13. Broken or Missing Components     |         |
| <b>Initial Electrical Inspection</b> |         |
| 14. Insulation Resistance/Megger     |         |
| 15. Winding Resistance               |         |
| 1-2                                  | 1-3 2-3 |
| 16. Perform Surge Test               |         |
| 17. Stator Condition                 | rewind  |




|   |                     |
|---|---------------------|
| <b>Mechanical Inspection</b>                                |                     |
| 18. Drive End Bearing Number-                               | na                  |
| 19. Drive End Bearing Qty.                                  |                     |
| 20. Drive End Bearing Type                                  |                     |
| 21. Drive End Lubrication Type                              |                     |
| 22. Drive End Bearing Insulation or Grounding Device?       |                     |
| 23. Drive End Wavy Washer/Snap-Ring Other Retention Device? |                     |
| 24. Drive End Bearing Condition                             |                     |
| 25. Opposite Drive End Bearing Number-                      | 6307                |
| 26. Opposite Drive End Bearing Qty.                         | 1                   |
| 27. Opposite Drive End Bearing Type                         | (Ball) Ball Bearing |

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|   |                            |                             |                            |
|---|----------------------------|-----------------------------|----------------------------|
| 28. Opposite Drive End Lubrication Type   | (Grease) Grease Lubricated |                             |                            |
| 29. Opposite Drive End Bearing Insulation or Grounding Device?  | no                         |                             |                            |
| 30. Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?  |                            |                             |                            |
| 31. Opposite Drive End Bearing Condition  |                            |                             |                            |
| 32. Drive End Seal  |                            |                             |                            |
| 33. Opposite Drive End Seal   |                            |                             |                            |
| <b>Rotor Inspection</b>   |                            |                             |                            |
| 34. Rotor Type/Material   |                            |                             |                            |
| <div style="display: flex; align-items: center;"> <div style="width: 15px; height: 15px; background-color: #ccc; margin-right: 5px;"></div> <span>Wound rotor</span> </div> |                            |                             |                            |
| 35. Growler Test  |                            |                             |                            |
| 36. Number of Rotor Bars  | 27                         |                             |                            |
| 37. Rotor Condition   | rewind                     |                             |                            |
| 38. List the Parts needed for the Repair Below  |                            |                             |                            |
| 39. Signature of Technician that Disassembled Motor   | RW                         |                             |                            |
|    |                            |                             |                            |
| <b>Mechanical Fits- Rotor</b>   |                            |                             |                            |
| 40. Shaft Runout  |                            |                             |                            |
| 41. Rotor Runout  |                            |                             |                            |
|   | Drive End Bearing Fit      | Rotor Body                  | Opposite Drive End Bearing |
| 42. Coupling Fit Closest to Bearing Housing   |                            |                             |                            |
|   | 0 Degrees                  | 90 Degrees                  | 120 Degrees                |
| 43. Coupling Fit Closest to the end of the Shaft  |                            |                             |                            |
|   | 0 Degrees                  | 60 Degrees                  | 120 Degrees                |
| 44. Drive End Bearing Shaft Fit   |                            |                             |                            |
|   | 0 Degrees                  | 60 Degrees                  | 120 Degrees                |
| 45. Drive End Bearing Shaft Fit Condition   |                            |                             |                            |
| 46. Opposite Drive End Bearing Shaft Fit  |                            |                             |                            |
|   | 0 Degrees                  | 60 Degrees                  | 120 Degrees                |
| 47. Opposite Drive End Bearing Shaft Fit Condition  |                            |                             |                            |
| 48. Shaft Air Seal Fits   |                            |                             |                            |
|   | Drive End Air Seal         | Opposite Drive End Air Seal |                            |
| <b>Mechanical Fits- Bearing Housings</b>  |                            |                             |                            |
| 49. Drive End - Endbell Bearing Fit   |                            |                             |                            |
|   | 0 Degrees                  | 60 Degrees                  | 120 Degrees                |
| 50. Drive End - Endbell Bearing Fit Condition   |                            |                             |                            |
| 51. Opposite Drive End - Endbell Bearing Fit  |                            |                             |                            |
|   | 0 Degrees                  | 60 Degrees                  | 120 Degrees                |

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|   |                                |
|---|--------------------------------|
| 52. Opposite Drive End - Endbell Bearing Fit Condition                            |                                |
| 53. Bearing Cap Condition   |                                |
| Drive End Bearing Cap   | Opposite Drive End Bearing Cap |
| 54. End Bell Air Seal Fits  |                                |
| Drive End Air Seal  | Opposite Drive End Air Seal    |
| 55. List Machine Work Needed Below  |                                |
| 56. Technician  | RW                             |
|  |                                |
| <b>Root Cause of Failure</b>  |                                |
| 57. Failure locations   |                                |
| 58. Root cause of failure   |                                |



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1. **APPLICABILITY.** The sale of any and all goods and/or services by Mock, Inc. d/b/a Hi-Speed Industrial Service ("Hi-Speed") shall be specifically conditioned upon and subject to the following terms and conditions which are incorporated by reference into any contracts and purchase orders with Hi-Speed, and which shall form and become a part of any agreement related thereto. Buyer's acceptance of any offer or quotation made by Hi-Speed for sale of any goods or services is expressly made subject to the terms and conditions set forth herein and to be so effective, Buyer need not sign or approve these Terms and Conditions to be bound hereunder provided a copy of same is provided to Buyer through any means. None of the terms and conditions contained herein may be added to, expanded, changed, modified, superseded or otherwise altered except as revised in writing and duly executed by Hi-Speed, and all orders received by Hi-Speed shall be governed only by the terms and conditions contained herein, notwithstanding any terms, conditions or provisions of any purchase order, release order, authorization or any other form issued by the Buyer. Hi-Speed hereby objects to any additional, modified, changed, deleted, altered or other terms and conditions not contained herein and notifies Buyer that any such terms or provisions are expressly rejected by Hi-Speed.
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5. **DELIVERY OF GOODS AND/OR SERVICES.** 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.
6. **DELIVERY SITE AND TIME FOR PERFORMANCE.** Hi-Speed and Buyer agree that time is of the essence for the purchase order and that Buyer shall fully cooperate with Hi-Speed in order to allow Hi-Speed full access to prosecute its work diligently and in an orderly manner. Buyer shall assist Hi-Speed in every way possible to avoid delaying, disrupting or interfering with the progress of Hi-Speed's work at the project site. In the event Hi-Speed's work is delayed, hindered, suspended, disrupted, re-sequenced or interfered with or rendered less efficient or more costly or adversely affected in any way as a result of acts or omissions of Buyer or other contractors or employees of Buyer or by any other reason beyond Hi-Speed's control and without the fault of Hi-Speed, then, in such event, Buyer shall be liable to Hi-Speed for any damages, additional costs, expenses, labor, materials, man hours, acceleration costs, overtime, additional jobsite overhead, extended home office overhead, and any and all other direct and indirect expenses of whatsoever nature or kind, caused in whole or in part, as a result of any of the above-referenced occurrences. Hi-Speed's project records will be the basis for computing the additional costs and damages of Hi-Speed's labor, materials, expenses and overhead related to such changes. BUYER WARRANTS THAT THE SITE FOR DELIVERY OR INSTALLATION OF ANY GOODS AND/OR FOR THE PERFORMANCE OF ANY SERVICES SHALL BE READY AND ADEQUATE FOR HI-SPEED'S DELIVERY OF GOODS AND/OR PERFORMANCE OF SERVICES AND THAT HI-SPEED SHALL HAVE FULL ACCESS THERETO, FREE OF ALL OBSTRUCTIONS. BUYER SHALL ASSUME ALL EXTRA COSTS ASSOCIATED WITH HI-SPEED'S INABILITY TO INSTALL ANY GOODS OR PERFORM ANY SERVICES AS A RESULT OF BUYER'S FAILURE TO COMPLY WITH THIS PROVISION. HI-SPEED MAY NOT INSPECT THE SITE PRIOR TO DELIVERY AND/OR INSTALLATION OF GOODS AND/OR PERFORMANCE OF SERVICES AND MAKES NO WARRANTY AS TO THE SUFFICIENCY OF THE SITE FOR THE DELIVERY AND/OR INSTALLATION OF GOODS AND/OR THE PERFORMANCE OF SERVICES AT SUCH SITE.
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8. **WARRANTIES.** Hi-Speed warrants that all goods shall conform in all material aspects to the goods identified in the quotation to Buyer and/or purchase order, and Hi-Speed makes to Buyer the manufacturer's express warranty for any goods sold to Buyer, which is offered by the manufacturer at the time of acceptance of any quotation by Buyer. This warranty is conditioned upon the installation, operation, and maintenance of the goods in accordance with the manufacturer's recommendations and/or standard industry practice and the goods at all times being operated or used under normal operating conditions for which they were designed. Hi-Speed, at its sole option, will repair or

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