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LR Motor Shop Repairs

Job Number 103017

Prepared for Reynolds Metals company

1333 highway 270
Malvern AR 72104

Table of Contents

| | | |
|--|---|------------|
| AC Inspection as Found - <i>Shop</i> | AC Inspection - Rev. 2: <i>E07TESP.42 2</i> | 1.0 |
| AC Random Coil Rewind Report - <i>Shop</i> | | 2.0 |



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

AC Inspection as Found

Reynolds Metals company

1333 highway 270

Malvern, AR 72104

FolderID: 103017

FormID: 20486394

AC Inspection - Rev. 2

Location: Shop

Serial Number: E07TESP.42 2

Description: 25HP SIEMENS

Hi-Speed Job Number: 103017

Manufacturer: Siemens

Product Number: 1LA02842SE41

Serial Number: E07TESP

HP/kW: 25 (HP)

RPM: 3525 (RPM)

Frame: 284T

Voltage: 460

Current: 29.0A

Phase: Three

Hz: 60 (Hz)

Service Factor: 1.15

Enclosure: TEFC

of Leads: 3

J-box Included: Complete

Date Received: 05/24/2024

Bearing RTDs: No

Stator RTDs: No

Repair Stage: Final

Rewind: Yes

Shaft Machined Fit Repairs
Required: No

Bearing Housing Machined
Fit Repairs Required: Yes

Heaters: No

Winding Type : Random Wound

Bearing Type: Rolling Element

Priorities Found: 4 - High

6 - Good

Overall Condition

1. Report Date

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1.0

2. Nameplate Picture



3. Photos of all six sides of the machine.





| | | |
|--------------------------------------|---|------------|
| 4. | Describe the Overall Condition of the Equipment as Received | |
| | <i>Acceptable</i> | |
| 5. | Distance from the end of the shaft to the Coupling/Sheave | inches |
| | <i>Na</i> | |
| Initial Mechanical/Electrical | | |
| 6. | Does Shaft Turn Freely? | (Y) Yes |
| 7. | Does the shaft require T.I.R in Lathe to identify additional repairs? | (No) No |
| 8. | Does Shaft Have Visible Damage? | (No) No |
| 9. | Assembled Shaft Runout | Inches |
| 10. | Assembled Shaft End Play | inches |
| 11. | Air Gap Variation <10% | |
| 12. | Lead Condition | (F) Fail |
| 13. | Lead Length | 12 Inches |
| 14. | Does it have Lugs?, If so what is the Stud Size? | (No) No |
| 15. | Lead Numbers | 3 |
| 16. | Frame Condition | acceptable |
| 17. | Fan Condition | (P) Pass |



| | | |
|--------------------------------------|------------------------------|---------------------------|
| 18. | Broken or Missing Components | missing bolt on fan cover |
| Initial Electrical Inspection | | |
| 19. | Insulation Resistance/Megger | Megohms |

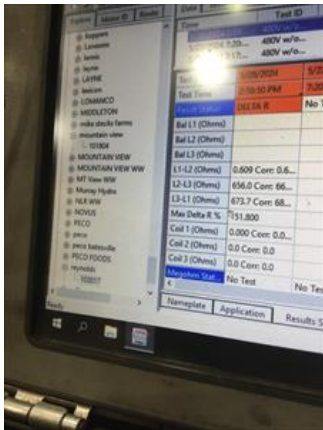
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20. Winding Resistance

1-2

1-3

2-3



21. Perform Surge Test (F) Fail

22. Number of Stator Slots

23. Stator Condition

24. Stator Thermistors/Ohms

25. Stator Overloads/Ohms

Mechanical Inspection

26. Drive End Bearing Brand

27. Drive End Bearing Number-

50Bc03Jp3

28. Drive End Bearing Qty.

1

29. Drive End Bearing Type

(Ball) Ball Bearing

30. Drive End Lubrication Type

(Grease) Grease Lubricated

31. Drive End Bearing Insulation or Grounding Device?

32. Drive End Wavy Washer/Snap-Ring Other Retention Device?

33. Drive End Bearing Condition

Contaminated / worn / frosting



34. Opposite Drive End Bearing Brand

35. Opposite Drive End Bearing Number-

50BC03JP3

36. Opposite Drive End Bearing Qty.

1

37. Opposite Drive End Bearing Type

(Ball) Ball Bearing

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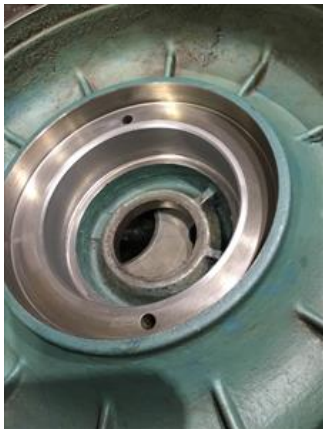
| | |
|--|----------------------------|
| 38. Opposite Drive End Lubrication Type | (Grease) Grease Lubricated |
| 39. Opposite Drive End Bearing Insulation or Grounding Device? | |
| 40. Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device? | 1 wavy washer |
| 41. Opposite Drive End Bearing Condition | |
| <input type="checkbox"/> Contaminated/ worn / frosting | |



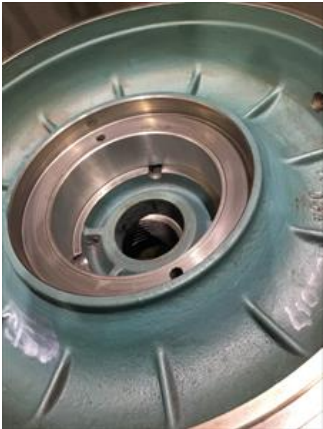
| | | | |
|------------------------|---|--|----------------------------|
| 42. | Drive End Seal | | |
| 43. | Opposite Drive End Seal | | |
| Rotor Inspection | | | |
| 44. | Rotor Type/Material | (Squirrel Aluminum) Squirrel Cage Aluminum Die Cast | |
| 45. | Growler Test | (Pass) Pass | |
| 46. | Number of Rotor Bars | | |
| 47. | Rotor Condition | | pass |
| 48. | List the Parts needed for the Repair Below | | |
| 49. | Signature of Technician that Disassembled Motor | | |
| Mechanical Fits- Rotor | | | |
| 50. | Shaft Runout | | inches |
| 51. | Rotor Runout | | |
| | Drive End Bearing Fit | Rotor Body | Opposite Drive End Bearing |
| 52. | Coupling Fit Closest to Bearing Housing | | |
| | 0 Degrees | 90 Degrees | 120 Degrees |
| 53. | Coupling Fit Closest to the end of the Shaft | | |
| | 0 Degrees | 60 Degrees | 120 Degrees |
| 54. | Drive End Bearing Shaft Fit | | |
| | 0 Degrees | 60 Degrees | 120 Degrees |
| | 1.9689 | 1.9689 | 1.9689 |
| 55. | Drive End Bearing Shaft Fit Condition | | (P) Pass |
| 56. | Opposite Drive End Bearing Shaft Fit | | |
| | 0 Degrees | 60 Degrees | 120 Degrees |
| | 1.9689 | 1.9689 | 1.9689 |
| 57. | Opposite Drive End Bearing Shaft Fit Condition | | (P) Pass |


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| | | | |
|--|------------|--------------------|--------------------|
| 71. Final Balance Readings | | | |
| Drive End | | Opposite Drive End | |
| | | | |
| 72. Technician | | | |
| Rewind | | | |
| 73. Core Test Results - Watts loss per Pound | | | |
| Pre-Burnout | | Post Burnout | |
| | | | |
| 74. Core Hot Spot Test | | | |
| Pre-Burnout | | Post-Burnout | |
| | | | |
| 75. Post Rewind Electrical Test- Insulation Resistance | | | |
| | | | Megohms |
| 76. Post Rewind Polarization Index | | | |
| | | | Polarization Index |
| 77. Post Rewind Winding Resistance | | | |
| 1-2 | 1-3 | 2-3 | |
| | | | |
| 78. Post Rewind Surge Test | | | |
| 79. Post Rewind Hi-Pot | | | micro-amps |
| 80. Technician | | | |
| Mechanical Fits- Bearing Housings - Post Repair | | | |
| 81. Drive End - Endbell Bearing Fit Post Repair | | | |
| 0 Degrees | 60 Degrees | 120 Degrees | |
| 4.3315 | 4.3315 | 4.3314 | |



| | | |
|--|------------|-------------|
| 82. Opposite Drive End - Endbell Bearing Fit Post Repair | | |
| 0 Degrees | 60 Degrees | 120 Degrees |
| 4.331 | 4.331 | 4.3309 |



| | | |
|---|------|--------------------------------|
| 83. Bearing Cap Condition Post Repair | | |
| Drive End Bearing Cap | | Opposite Drive End Bearing Cap |
| | | |
| 84. End Bell Air Seal Fits Post Repair | | |
| Drive End Air Seal | | Opposite Drive End Air Seal |
| | | |
| 85. End Bell Repair Sign-off | | Gary |
|  | Gary | |
| Assembly | | |
| 86. QC Check All Parts for Cleanliness Prior to Assembly | | |

87. Photograph All Major Components prior to assembly



88. Final Insulation Resistance Test

Megohms

Pass

89. Assembled Shaft Endplay

inches

Na

90. Assembled Shaft Runout

inches

Na

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91. Test Run Voltage

Volts

Volts

Volts



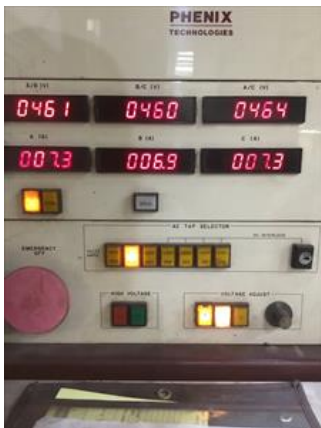
92. Test Run Amperage

Amps

Amps

Amps

Witnessed by RRW



93. Drive End Vibration Readings - Inches Per Second

Horizontal

Vertical

Axial

0.02

0.04

0.008999999999999999

94. Opposite Drive End Vibration Readings - Inches Per Second

Horizontal

Vertical

Axial

0.02

0.02

0.008999999999999999

95. Ambient Temperature - Fahrenheit

Na

96. Drive End Bearing Temps - Fahrenheit

5 Minutes

10 Minutes

15 Minutes

Na

97. Opposite Drive End Bearing Temps - Fahrenheit

5 Minutes

10 Minutes

15 Minutes

Na

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98. Document Final Condition with Pictures after paint



99. Final Pics and QC Review

Cw

Co sign: RRW



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

AC Random Coil Rewind Report

FolderID: 103017
FormID: 20596368

Reynolds Metals company
1333 highway 270
Malvern, AR 72104

Shop

Priorities Found:

| General | |
|---------------------------------------|---------|
| 1. Job Number | |
| 2. Report Date | |
| 3. Customer | |
| Stator Winding | |
| 4. Core Length | 7.5 " |
| 5. Core ID | 6.25 " |
| 6. Back Iron Depth | 1.75 " |
| 7. Slot Depth | 0.625 " |
| 8. Tooth Width | 0.257 " |
| 9. Number of Vents | 0 |
| 10. Vent Width | 0 " |
| 11. Before Burnout Core loss | |
| 12. Flux Before Burnout | |
| 13. Watts before burnout | |
| 14. Watts loss per lb. before burnout | |
| 15. After Burnout Core Loss | |
| 16. Flux After burnout | |
| 17. Watts After Burnout | |
| 18. Watts loss per lb After Burnout | |
| 19. Core Iron Condition | |
| 20. RTD's | |
| 21. RTD's Reading | |
| 22. Motor Heaters | |
| 23. Heater Qty. | |
| 24. Heater Voltage | |
| 25. Heater Wattage | |
| 26. Thermistors | |
| 27. Number of Poles | |
| 28. Slots | 36 |
| 29. Number of Coils | 36 |
| 30. Coil Weight | 24 Lbs. |
| 31. Lead Markings | |
| 32. Grouping | |
| 6 of 6 | |
| 33. Multiple Wires | |

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| | |
|---------------------|------|
| 34. Wire Size | |
| 1-8/3-19 | |
| 35. Turns per coil | 11 |
| 36. Pitch 1 to: | 14 |
| 37. Connection | |
| 1delta | |
| 38. Lead Length | 12 " |
| 39. Lead Size | 12 |
| 40. Number of Leads | 3 |



| | |
|--|--|
| 41. Megger Reading After Rewind | |
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| | |
|-----|-----------------------------|
| 42. | Coil Machine Slot |
| 43. | Coil Machine Tip |
| 44. | Coil Machine Pitch |
| 45. | Hi Pot Reading After Rewind |
| 46. | Surge Pattern After Rewind |
| 47. | Service Technician |



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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.
2. **PRICE.** All quoted prices shall remain firm and binding for a period of thirty (30) days from the date of quotation or for the period specifically stated in the quotation. The price for any and all goods and/or services ordered or approved by Buyer after thirty (30) days from the date of any quotation are subject to any increase in price that may occur after the expiration of thirty (30) days from the issuance of the quotation and the date the Buyer releases any shipment.
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4. **BILLING AND PAYMENT TERMS.** Hi-Speed shall invoice Buyer for all goods and/or services as same are rendered at the address listed on the quotation. Payments for all goods and/or services shall be due thirty (30) days from the date of the current invoice or as otherwise set forth in the quotation. Late payments are subject to a late fee of 5% of the total invoice amount. Recurring late payments may lead to a deposit requirement on future services or sale of goods. Buyer shall be liable to Hi-Speed for any and all fees and expenses incurred by Hi-Speed to collect any invoices or to enforce these Standard Terms and Conditions, including but not limited to, attorney's fees.
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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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, earthquake, 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. **NONWAIVER.** 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.