

Motor Shop Repairs

Job Number 99253

Prepared for Rogers Group (01189502)

1032 Hwy 5 Cabot AR 72023

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AC Recondition Repair Report

Rogers Group (01189502)

1032 Hwy 5 Cabot, AR 72023

Priorities Found: **2 - High**

14 - Good

General

| 1. | Job Number | 99253 |
|----|------------|-------|
| | | |

2. Report Date 1/18/2022

3. Customer **Rogers Group**

El Paso, AR

Name Plate Information

Manufacturer

























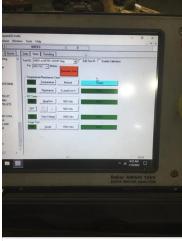






| 5. | Model | 1B2606FLF4BSW |
|-------------|-------------------------------|---------------|
| 6. | Serial Number | 80703067 |
| 7. | Horsepower | 200 |
| 8. | KW | |
| 9. | Volts | 460 |
| 10. | Amps | 239 |
| 11. | RPM | 1185 |
| 12. | Frame | 505UZ |
| 13. | Enclosure | TEFC |
| 14. | Cycles | 60 |
| 15. | Phase | 3 |
| 16. | Service Factor | 1.15 |
| 17. | Motor Mount Position | |
| Initial | Inspection | |
| 18. | Number of Leads | 9 |
| 19. | Lead Length | 8 Inches |
| 20. | Lead Size | |
| 2 1. | Lead Condition | (P) Pass |
| 22. | Lead Markings | |
| 23. | Lug Size, Condition, and Type | |
| 24. | Winding RTD's | |
| 25. | Winding Rtd's Condition | |

| 26. | Shaft Run Out | |
|---------|--------------------------------|----------|
| 27. | Does Shaft Turn Freely | yes |
| 28. | Does Shaft Have Visible Damage | no |
| 29. | Bearing Rtd's | |
| 30. | Bearing Rtd's Condition | |
| 31. | Contamination | |
| | Dust | |
| 32. | Frame Condition | (P) Pass |
| 33. | Fan Condition | (P) Pass |
| 34. | Broken or missing components | |
| | NA | |
| Initial | Electric Test | |
| 35. | Resistance to Ground | |
| 36. | Winding Resistance 1-2 | |
| 37. | Winding Resistance 2-3 | |
| 38. | Winding Resistance 1-3 | |
| 39. | Resistive Imbalance | |
| 40. | Hi-Pot | |
| 41. | Surge Test | (P) Pass |



| 42. | Stator Condition | | | |
|-----------------------|-----------------------------|---------------|--|--|
| 43. | Failure Location | | | |
| Initial | Initial Rotor Inspection | | | |
| 44. | Rotor Type | cast aluminum | | |
| 45. | Air Gap <10% Variation | | | |
| 46. | Number of Rotor Bars | | | |
| 47. | Number of Broken Rotor Bars | 0 | | |
| 48. | Growler Test | (P) Pass | | |
| 4 9. | Rotor Condition | (P) Pass | | |
| Mechanical Inspection | | | | |
| 50. | Bearing Manufacture | nsk | | |

51. Bearing DE Size 322 NU



| 52. Bearing DE Type | rollor bearing |
|----------------------|----------------|
| 53. DE Bearing Qty. | 1 |
| 54. Bearing ODE Size | 6318 |



| 350 | | | |
|-----|-----|---------------------|----------|
| | 55. | Bearing ODE Type | ball |
| | 56. | ODE Bearing Qty. | 1 |
| | 57. | Insulated Bearing | |
| | 58. | Lubrication Type | |
| | 59. | Grease Condition | (F) Fail |
| | | Grease was hardened | |



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60. Bearing Retainers







62. DE Seal (NA) Not Applicable

63. DE Seal Type/Size

64. ODE Seal (NA) Not Applicable

65. ODE Seal Type/Size

Root Cause of Failure

66. Component Failure

bearings, ODE bearing fit in the end bell, fan cov

67. Cause of Failure

Wear and improperly maintained

68. Comments

Recommend new bearings, new fan cover, recondition, and machine work on ode end bell

CW 69. Service Technician

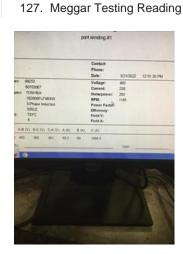
Machine Fit Inspection Report

- 70. Shaft Run Out
- 71. Initial Shaft Run Out
- 72. Final Shaft Run Out

| 73. | | |
|--|---|---------------------------------|
| | DE Bearing Shaft Fit | (P) Pass |
| 74. | DE Initial Shaft Bearing Fit Size 1 | 4.3316 " |
| 75. | DE Initial Shaft Bearing Fit Size 2 | 4.3316 " |
| 76. | DE Initial Shaft Bearing Fit Size 3 | 4.3315 " |
| 77. | DE Finial Shaft Bearing Fit Size 1 | |
| 78. | DE Finial Shaft Bearing Fit Size 2 | |
| 79. | DE Finial Shaft Bearing Fit Size 3 | |
| 80. | ODE Bearing Shaft Fit | (P) Pass |
| 81. | ODE Initial Shaft Bearing Fit Size 1 | 3.5442 " |
| 82. | - | 3.5442 " |
| 83. | ODE Initial Shaft Bearing Fit Size 3 | 3.5443 " |
| | ODE Finial Shaft Bearing Fit Size 1 | |
| | ODE Finial Shaft Bearing Fit Size 2 | |
| | ODE Finial Shaft Bearing Fit Size 3 | |
| 87. | - | |
| 88. | | |
| | DE Final Air Seal Shaft Size | |
| | ODE Air Seal Shaft Fit | |
| | ODE Initial Air Seal Shaft Size | |
| 92. | | |
| 92. | | (P) Pass |
| , | DE Initial Endbell Fit Size 1 | 9.4498 " |
| υ - | DE IIIIII ETIODOTT IL OIZO I | 3.7730 |
| 95 | DE Initial Endhell Fit Size 2 | 9 44870000000001 " |
| | DE Initial Endbell Fit Size 2 DE Initial Endbell Fit Size 3 | 9.448700000000001 " |
| 96. | DE Initial Endbell Fit Size 3 | 9.448700000000001 " 9.4488 " |
| 96. 97. | DE Initial Endbell Fit Size 3 DE Final Endbell Fit Size 1 | |
| 96. 97. 98. | DE Initial Endbell Fit Size 3 DE Final Endbell Fit Size 1 DE Finial Endbell Fit Size 2 | |
| 96. 97. 98. 99. | DE Initial Endbell Fit Size 3 DE Final Endbell Fit Size 1 DE Finial Endbell Fit Size 2 DE Final Endbell Fit Size 3 | |
| 96. 97. 98. 99. | DE Initial Endbell Fit Size 3 DE Final Endbell Fit Size 1 DE Finial Endbell Fit Size 2 DE Final Endbell Fit Size 3 DE Endbell Fit Insulated | |
| 96. 97. 98. 99. 100. | DE Initial Endbell Fit Size 3 DE Final Endbell Fit Size 1 DE Finial Endbell Fit Size 2 DE Final Endbell Fit Size 3 DE Endbell Fit Insulated DE Endbell Air Seal Fit | |
| 96. 97. 98. 99. 100. 101. | DE Initial Endbell Fit Size 3 DE Final Endbell Fit Size 1 DE Finial Endbell Fit Size 2 DE Final Endbell Fit Size 3 . DE Endbell Fit Insulated . DE Endbell Air Seal Fit . Initial Endbell Air Seal Fit Size | |
| 96. 97. 98. 99. 100. 101. 102. | DE Initial Endbell Fit Size 3 DE Final Endbell Fit Size 1 DE Finial Endbell Fit Size 2 DE Final Endbell Fit Size 3 DE Endbell Fit Insulated DE Endbell Air Seal Fit Initial Endbell Air Seal Fit Size Finial Endbell Air Seal Fit Size | 9.4488 " |
| 96. 97. 98. 99. 100. 101. 102. 103. | DE Initial Endbell Fit Size 3 DE Final Endbell Fit Size 1 DE Finial Endbell Fit Size 2 DE Final Endbell Fit Size 3 DE Endbell Fit Insulated DE Endbell Air Seal Fit Initial Endbell Air Seal Fit Size Finial Endbell Air Seal Fit Size ODE Endbell Fit | |
| 96. 97. 98. 99. 100. 101. 102. 103. | DE Initial Endbell Fit Size 3 DE Final Endbell Fit Size 1 DE Finial Endbell Fit Size 2 DE Final Endbell Fit Size 3 . DE Endbell Fit Insulated . DE Endbell Air Seal Fit . Initial Endbell Air Seal Fit Size . Finial Endbell Air Seal Fit Size . ODE Endbell Fit Worn lip in end bell | 9.4488 " |
| 96. 97. 98. 99. 100. 101. 102. 103. 104. | DE Initial Endbell Fit Size 3 DE Final Endbell Fit Size 1 DE Finial Endbell Fit Size 2 DE Final Endbell Fit Size 3 . DE Endbell Fit Insulated . DE Endbell Air Seal Fit . Initial Endbell Air Seal Fit Size . Finial Endbell Air Seal Fit Size . ODE Endbell Fit Worn lip in end bell . ODE Initial Endbell Fit Size 1 | 9.4488 " |
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Balancing Report 119. Balance Type 120. Balance Operating Speed 121. Start Left End 122. Start Right End 123. Balancing Specification 124. Finish Left End 125. Finish Right End 126. Service Technician Assembly and Final Test

Mohm



| 128. Surge Test | |
|--|--------------------------|
| 129. Hi-Pot | |
| 130. Winding Resistance 1-2 | |
| 131. Winding Resistance 2-3 | |
| 132. Winding Resistance 1-3 | |
| 133. Test Run Voltage Phase A | |
| 134. Test Run Amps A | |
| 135. Test Run Voltage Phase B | |
| 136. Test Run Amps B | |
| 137. Test Run Voltage Phase C | |
| 138. Test Run Amps C | |
| 139. DE Horizontal Vibration Reading | 0.08 ln/Sec |
| 140. DE Vertical Vibration Reading | 0.1 In/Sec |
| 141. DE Axial Vibration Reading | 0.05 In/Sec |
| 142. ODE Horizontal Vibration Reading | 0.098 In/Sec |
| 143. ODE Vertical Vibration Reading | 0.95 ln/Sec |
| 144. ODE Axial Vibration Reading | 0.085000000000001 In/Sec |
| 145. Ambient Temp at start of Test Run | |
| 146. Temp at 5 minutes | |

| 147. Temp at 10 minutes | |
|-------------------------|----------|
| 148. Temp at 15 minutes | |
| 149. Temp at 20 minutes | |
| 150. Temp at 25 minutes | |
| 151. Temp at 30 minutes | |
| 152. Temp at 35 minutes | |
| 153. Temp at 40 minutes | |
| 154. Temp at 45 minutes | |
| 155. Temp at 50 minutes | |
| 156. Temp at 55 minutes | |
| 157. Temp at 60 minutes | |
| 158. Motor Paint | (P) Pass |

































159. Service Technician

David Maclin

Per



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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.
- **DELIVERY SITE AND TIME FOR PERFORMANCE.** Hi-Speed and Buver 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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- 9. <u>LIMITATION OF DAMAGES.</u> HI-SPEED SHALL HAVE NO LIABILITY TO BUYER WITH RESPECT TO THE SALE OR DELIVERY OF ANY GOODS OR THE REPAIR THEREOF OR WITH RESPECT TO THE SALE OR PERFORMANCE OF ANY SERVICES, FOR LOST PROFITS, SPECIAL, CONSEQUENTIAL, EXEMPLARY, PUNITIVE OR INCIDENTAL DAMAGES OF ANY KIND OR NATURE WHETHER ARISING IN CONTRACT, TORT, GOODS LIABILITY OR OTHERWISE, EVEN IF HI-SPEED WAS ADVISED OF THE POSSIBILITY OF SUCH LOSS OR DAMAGES. HI-SPEED SHALL NOT BE LIABLE FOR ANY DAMAGES OR DELAYS CAUSED BY ANY FAILURE TO MAKE ANY DELIVERY OF GOODS BY ANY EXPECTED TIME OR DATE OR THE FAILURE TO PROVIDE OR COMPLETE ANY SERVICES BY ANY EXPECTED DATE OR TIME. IN NO EVENT SHALL HI-SPEED BE LIABLE TO BUYER FOR ANY DAMAGES WHATSOEVER IN EXCESS OF THE TOTAL PRICE PAID FOR ALL GOODS AND/OR SERVICES HEREUNDER OR REFERENCED IN ANY QUOTATION OR THE PURCHASE ORDER.
- 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.