



KEEPING YOUR FACILITY UP TO SPEED
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Motor Shop Repairs

Job Number 97760

Prepared for ABC BLOCK

6902 BRODIE LN
LITTLE ROCK AR 72204

Table of Contents

AC Recondition Repair Report	1.0
AC Random Coil Rewind Report	2.0



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

AC Recondition Repair Report

ABC BLOCK
6902 BRODIE LN
LITTLE ROCK, AR 72204

Performed By: Motor Shop LR 1
Date Completed: 1/22/2021

FolderID: 97760
FormID: 9801308

Priorities Found: ● 2 - High ● 9 - Good

General

1. Job Number	97760
2. Report Date	
3. Customer	ABC BLOCK

Name Plate Information

4. Manufacturer	COLUMBIA
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5. Model	
6. Serial Number	C0312150048
7. Horsepower	30
8. KW	
9. Volts	230.460
10. Amps	
11. RPM	1775
12. Frame	286TC
13. Enclosure	OPEN
14. Cycles	60

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15. Phase	3
16. Service Factor	1.15
17. Motor Mount Position	F1
Initial Inspection	
18. Number of Leads	12



19. Lead Length	
20. Lead Size	
21. Lead Condition	
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	no
28. Does Shaft Have Visible Damage	no
29. Bearing Rtd's	
30. Bearing Rtd's Condition	
31. Contamination <i>Mud</i>	
32. Frame Condition	(P) Pass
33. Fan Condition	(NA) Not Applicable
34. Broken or missing components <i>NA</i>	
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	

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42. Stator Condition

short to ground



43. Failure Location

windings

Initial Rotor Inspection

44. Rotor Type

cast aluminum



45. Air Gap <10% Variation

46. Number of Rotor Bars

40

47. Number of Broken Rotor Bars

0

48. Growler Test

● 49. Rotor Condition

(P) Pass

Mechanical Inspection

50. Bearing Manufacture

koyo

51. Bearing DE Size

6310

52. Bearing DE Type

ball

53. DE Bearing Qty.

1

54. Bearing ODE Size

6309

55. Bearing ODE Type

ball

56. ODE Bearing Qty.

1

57. Insulated Bearing

58. Lubrication Type

grease

● 59. Grease Condition

(F) Fail

● 60. Bearing Retainers

(Y) Yes

61. Shaft Grounding Device

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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	windings and bearings and ode bearing fit on shaft
67. Cause of Failure <i>Short to ground and grease contamination</i>	
68. Comments <i>Recommend rewind, new bearings, and machine work</i>	
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	1.9686 "
75. DE Initial Shaft Bearing Fit Size 2	1.9686 "
76. DE Initial Shaft Bearing Fit Size 3	1.9686 "
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	(F) Fail
81. ODE Initial Shaft Bearing Fit Size 1	1.7713 "
82. ODE Initial Shaft Bearing Fit Size 2	1.7711 "
83. ODE Initial Shaft Bearing Fit Size 3	1.7713 "
84. ODE Finial Shaft Bearing Fit Size 1	1.772 "



85. ODE Finial Shaft Bearing Fit Size 2	1.7719 "
86. ODE Finial Shaft Bearing Fit Size 3	1.7719 "
87. DE Air Seal Shaft Fit	
88. DE Initial Air Seal Shaft Size	
89. DE Final Air Seal Shaft Size	
90. ODE Air Seal Shaft Fit	
91. ODE Initial Air Seal Shaft Size	

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92. ODE Final Air Seal Shaft Size	
● 93. DE Endbell Fit	(P) Pass



94. DE Initial Endbell Fit Size 1	4.3309 "
95. DE Initial Endbell Fit Size 2	4.3312 "
96. DE Initial Endbell Fit Size 3	4.331 "
97. DE Final Endbell Fit Size 1	
98. DE Final Endbell Fit Size 2	
99. DE Final Endbell Fit Size 3	
100. DE Endbell Fit Insulated	
101. DE Endbell Air Seal Fit	
102. Initial Endbell Air Seal Fit Size	
103. Final Endbell Air Seal Fit Size	
● 104. ODE Endbell Fit	(P) Pass



105. ODE Initial Endbell Fit Size 1	3.9379 "
106. ODE Initial Endbell Fit Size 2	3.9374 "
107. ODE Initial Endbell Fit Size 3	3.9377 "
108. ODE Final Endbell Fit Size 1	
109. ODE Final Endbell Fit Size 2	
110. ODE Final Endbell Fit Size 3	
111. ODE Endbell Fit Insulated	
112. ODE Endbell Air Seal Fit	
113. ODE Initial Endbell Seal Fit Size	

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114. ODE Finial Endbell Seal Fit Size	
115. Foot Flatness	(P) Pass
116. Foot Condition	(P) Pass
117. Flange Condition	(P) Pass
118. Service Technician	

Balancing Report

119. Balance Type	dynamic
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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

127. Meggar Testing Reading
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
140. DE Vertical Vibration Reading
141. DE Axial Vibration Reading
142. ODE Horizontal Vibration Reading
143. ODE Vertical Vibration Reading
144. ODE Axial Vibration Reading
145. Ambient Temp at start of Test Run

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- | |
|-------------------------|
| 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 |



- | |
|-------------------------|
| 159. Service Technician |
|-------------------------|



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

AC Random Coil Rewind Report

FolderID: 97760
FormID: 9841461

ABC BLOCK
6902 BRODIE LN
LITTLE ROCK, AR 72204

Priorities Found:

General	
1. Job Number	97760
2. Report Date	
3. Customer	abc block
Name Plate Information	
4. Manufacturer	bald or
5. Model	10e8984364n2
6. Serial Number	c0312150045
7. Horsepower	30 HP
8. KW	KW
9. Volts	460 Volts
10. Amps	36.8 Amps
11. RPM	1775 RPM
12. Frame	286t
13. Enclosure	
14. Cycles	60 HZ
15. Phase	3 PH
16. Service Factor	1.1
17. Motor Mount Position	
Initial Inspection	
18. Number of Leads	12
19. Lead Length	Inches
20. Lead Size	12
21. Lead Condition	
22. Lead Markings	1-12
23. Lug Size, Condition, and Type	
24. Winding RTD's	
25. Winding Rtd's Condition	
26. Shaft Run Out	
27. Does Shaft Turn Freely	
28. Does Shaft Have Visible Damage	
29. Bearing Rtd's	
30. Bearing Rtd's Condition	
31. Contamination	
32. Frame Condition	
33. Fan Condition	
34. Broken or missing components	

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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	
42. Stator Condition	
43. Failure Location	
Initial Rotor Inspection	
44. Rotor Type	
45. Air Gap <10% Variation	
46. Number of Rotor Bars	
47. Number of Broken Rotor Bars	
48. Growler Test	
49. Rotor Condition	
Mechanical Inspection	
50. Bearing Manufacture	
51. Bearing DE Size	
52. Bearing DE Type	
53. DE Bearing Qty.	
54. Bearing ODE Size	
55. Bearing ODE Type	
56. ODE Bearing Qty.	
57. Insulated Bearing	
58. Lubrication Type	
59. Grease Condition	
60. Bearing Retainers	
61. Shaft Grounding Device	
62. DE Seal	
63. DE Seal Type/Size	
64. ODE Seal	
65. ODE Seal Type/Size	
Root Cause of Failure	
66. Component Failure	
67. Cause of Failure	
68. Comments	
69. Service Technician	
Stator Winding	
70. Core Length	6 "
71. Core ID	7.562 "
72. Back Iron Depth	0.875 "
73. Slot Depth	1 "
74. Tooth Width	0.242 "
75. Number of Vents	
76. Vent Width	

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77. Before Burnout Core loss	
78. Flux Before Burnout	
79. Watts before burnout	
80. Watts loss per lb. before burnout	
81. After Burnout Core Loss	
82. Flux After burnout	85.123
83. Watts After Burnout	
84. Watts loss per lb After Burnout	
85. Core Iron Condition	
86. RTD's	
87. RTD's Reading	
88. Motor Heaters	
89. Heater Qty.	
90. Heater Voltage	
91. Heater Wattage	
92. Thermistors	
93. Number of Poles	4
94. Slots	48
95. Number of Coils	
96. Coil Weight	
97. Lead Markings	
98. Grouping	
99. Multiple Wires	
100. Wire Size	
101. Turns per coil	
102. Pitch 1 to:	
103. Connection	
104. Lead Length	
105. Lead Size	
106. Number of Leads	
107. Megger Reading After Rewind	
108. Coil Machine Slot	
109. Coil Machine Tip	
110. Coil Machine Pitch	
111. Hi Pot Reading After Rewind	
112. Surge Pattern After Rewind	
113. Service Technician	
Machine Fit Inspection Report	
114. Shaft Run Out	
115. Initial Shaft Run Out	
116. Final Shaft Run Out	
117. DE Bearing Shaft Fit	
118. DE Initial Shaft Bearing Fit 1	
119. DE Initial Shaft Fit	
120. DE Finial Shaft Bearing Fit 1	
121. DE Initial Shaft Bearing Fit 2	
122. DE Finial Shaft Bearing Fit 2	

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123.	DE Initial Shaft Bearing Fit 3
124.	DE Finial Shaft Bearing Fit 3
125.	ODE Bearing Shaft Fit
126.	ODE Initial Shaft Bearing Fit 1
127.	ODE Finial Shaft Bearing Fit 1
128.	ODE Initial Shaft Bearing Fit 2
129.	ODE Finial Shaft Bearing Fit 2
130.	ODE Initial Shaft Bearing Fit 3
131.	ODE Finial Shaft Bearing Fit 3
132.	DE Air Seal Shaft Fit
133.	DE Initial Air Seal Shaft Size
134.	DE Final Air Seal Shaft Size
135.	ODE Air Seal Shaft Fit
136.	ODE Initial Air Seal Shaft Size
137.	ODE Final Air Seal Shaft Size
138.	DE Endbell Fit
139.	DE Initial Endbell Fit Size 1
140.	DE Final Endbell Fit Size 1
141.	DE Initial Endbell Fit Size 2
142.	DE Finial Endbell Fit Size 2
143.	DE Initial Endbell Fit Size 3
144.	DE Final Endbell Fit Size 3
145.	DE Endbell Fit Insulated
146.	DE Endbell Air Seal Fit
147.	Initial Endbell Air Seal Fit Size
148.	Finial Endbell Air Seal Fit Size
149.	ODE Endbell Fit
150.	ODE Endbell Fit Insulated
151.	ODE Endbell Air Seal Fit
152.	ODE Initial Endbell Seal Fit Size
153.	ODE Finial Endbell Seal Fit Size
154.	Foot Flatness
155.	Foot Condition
156.	Flange Condition
157.	Service Technician
Balancing Report	
158.	Balance Type
159.	Balance Operating Speed
160.	Start Left End
161.	Start Right End
162.	Balancing Specification
163.	Finish Left End
164.	Finish Right End
165.	Service Technician
Assembly and Final Test	
166.	Meggar Testing Reading

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167. Surge Test
168. Hi-Pot
169. Winding Resistance 1-2
170. Winding Resistance 2-3
171. Winding Resistance 1-3
172. Test Run Voltage Phase A
173. Test Run Amps A
174. Test Run Voltage Phase B
175. Test Run Amps B
176. Test Run Voltage Phase C
177. Test Run Amps C
178. DE Horizontal Vibration Reading
179. DE Vertical Vibration Reading
180. DE Axial Vibration Reading
181. ODE Horizontal Vibration Reading
182. ODE Vertical Vibration Reading
183. ODE Axial Vibration Reading
184. Ambient Temp at start of Test Run
185. Temp at 5 minutes
186. Temp at 10 minutes
187. Temp at 15 minutes
188. Temp at 20 minutes
189. Temp at 25 minutes
190. Temp at 30 minutes
191. Temp at 35 minutes
192. Temp at 40 minutes
193. Temp at 45 minutes
194. Temp at 50 minutes
195. Temp at 55 minutes
196. Temp at 60 minutes
197. Motor Paint
198. Service Technician



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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.
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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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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.