

LR Motor Shop Repairs

Job Number 100337

Prepared for Wrightsville Power Facility (113809)

PO Box 7 Wrightsville AR 72183

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(P) Pass

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AC Recondition Repair Report

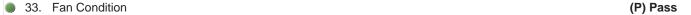
Wrightsville Power Facility (113809)

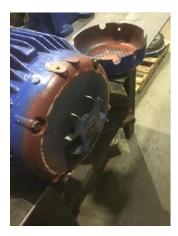
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Wrightsville, AR 72183

32. Frame Condition

Priorities Found: 3 - High 14 - Good General 1. Job Number 100337 2. Report Date 3. Customer **AECC Name Plate Information** 4. Manufacturer **Baldor** 5. Model 511574 F0006185450 6. Serial Number 7. Horsepower 7.5 HP 8. KW 9. Volts 460 Volts 11.1 Amps 10. Amps 11. RPM 3450 RPM 12. Frame 215TCZ **TEFC** 13. Enclosure 14. Cycles 60 HZ 15. Phase 3 PH 16. Service Factor 1.15 17. Motor Mount Position **Initial Inspection** 18. Number of Leads 3 19. Lead Length 6 Inches 20. Lead Size 18 21. Lead Condition (P) Pass 22. Lead Markings na 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 (NA) Not Applicable 30. Bearing Rtd's Condition (NA) Not Applicable 31. Contamination





34.	Broken or missing components	
Initia	I Electric Test	
35.	Resistance to Ground	0 Mohm
36.	Winding Resistance 1-2	
37.	Winding Resistance 2-3	
38.	Winding Resistance 1-3	
39.	Resistive Imbalance	
40.	Hi-Pot	
4 1.	Surge Test	(F) Fail
42.	Stator Condition	rewind





43. Failure Location connection end from bearing parts

Initial Rotor Inspection

44. Rotor Type cast aluminum



45.	Air Gap <10% Variation	
46.	Number of Rotor Bars	28
47.	Number of Broken Rotor Bars	0
48.	Growler Test	(P) Pass
4 9.	Rotor Condition	(P) Pass
Mech	anical Inspection	
50.	Bearing Manufacture	
51.	Bearing DE Size	6309ZZ
52.	Bearing DE Type	ball bearing
53.	DE Bearing Qty.	1
54.	Bearing ODE Size	6206ZZ
55.	Bearing ODE Type	ball bearing
56.	ODE Bearing Qty.	1
57.	Insulated Bearing	no
58.	Lubrication Type	grease
59.	Grease Condition	(NA) Not Applicable
6 0.	Bearing Retainers	(Y) Yes



61. Shaft Grounding Device	(NA) Not Applicable
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 ode bearing and bearing fits.
Stator

67. Cause of Failure

Lack of lubrication ODE bearing. Metal pieces from bearing got in stator windings and caused short

68. Comments

69. Service Technician RW



Machine Fit Inspection Report

 iaoiii	me i it mapeonom report	
70.	Shaft Run Out	(P) Pass
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	1.772 "
75. DE Initial Shaft Bearing Fit Size 2	1.772 "
76. DE Initial Shaft Bearing Fit Size 3	1.772 "
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







81. ODE Initial Shaft Bearing Fit Size 1	1.1802 "
82. ODE Initial Shaft Bearing Fit Size 2	1.1806 "
83. ODE Initial Shaft Bearing Fit Size 3	1.1806 "
84. ODE Finial Shaft Bearing Fit Size 1	2.4414 "



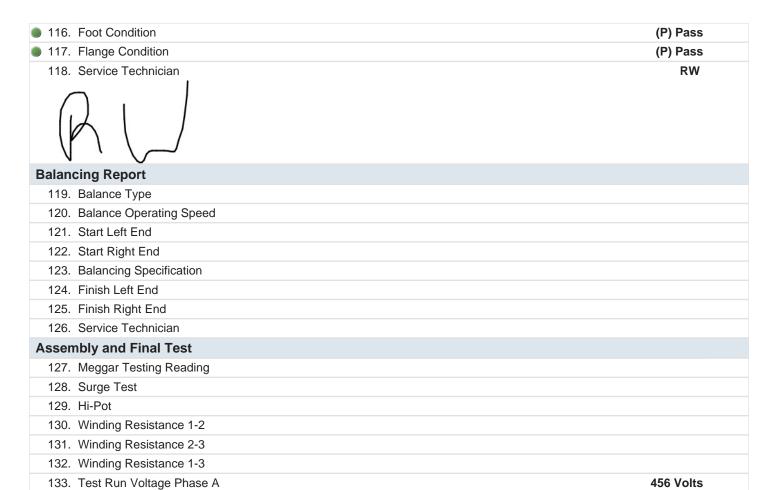
85.	ODE Finial Shaft Bearing Fit Size 2	2.4412 "
86.	ODE Finial Shaft Bearing Fit Size 3	2.4412 "
87.	DE Air Seal Shaft Fit	
88.	DE Initial Air Seal Shaft Size	
89.	DE Final Air Seal Shaft Size	
90.	ODE Air Seal Shaft Fit	
91.	ODE Initial Air Seal Shaft Size	
92.	ODE Final Air Seal Shaft Size	
93.	DE Endbell Fit	(P) Pass



94. DE Initia	al Endbell Fit Size 1	3.9379 "
95. DE Initia	al Endbell Fit Size 2	3.9379 "
96. DE Initia	al Endbell Fit Size 3	3.9379 "
97. DE Fina	al Endbell Fit Size 1	
98. DE Fini	al Endbell Fit Size 2	
99. DE Fina	al Endbell Fit Size 3	
100. DE End	bell Fit Insulated	(NA) Not Applicable
101. DE End	bell Air Seal Fit	
102. Initial E	ndbell Air Seal Fit Size	
103. Finial E	ndbell Air Seal Fit Size	
104. ODE Er	ndbell Fit	(F) Fail



105. ODE Initial Endbell Fit Size 1	2.4424 "
106. ODE Initial Endbell Fit Size 2	2.4424 "
107. ODE Initial Endbell Fit Size 3	2.4424 "
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	(NA) Not Applicable
112. ODE Endbell Air Seal Fit	
113. ODE Initial Endbell Seal Fit Size	
114. ODE Finial Endbell Seal Fit Size	
115. Foot Flatness	(P) Pass







With blower

134. Test Run Amps A 3.5 Amps





With blower

135. Test Run Voltage Phase B	454 Volts
136. Test Run Amps B	3.6 Amps
137. Test Run Voltage Phase C	454 Volts
138. Test Run Amps C	3.4 Amps
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	
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 RW

RW



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AC Random Coil Rewind Report

Wrightsville Power Facility (113809) PO Box 7

Wrightsville, AR 72183

Priorities Found:

	s round.	
Gene	ral	
1.	Job Number	100337
2.	Report Date	11/14/2022
3.	Customer	AECC
Stato	r Winding	
4.	Core Length	2.625 "
5.	Core ID	2.375 "
6.	Back Iron Depth	1.187 "
7.	Slot Depth	1.062 "
8.	Tooth Width	
9.	Number of Vents	36
10.	Vent Width	
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	
29.	Number of Coils	
30.	Coil Weight	
31.	Lead Markings	
32.	Grouping	
33.	Multiple Wires	
34.	Wire Size	
35.	Turns per coil	

36.	Pitch 1 to:
37.	Connection
38.	Lead Length
39.	Lead Size
40.	Number of Leads
41.	Megger Reading After Rewind
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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- 3. SCOPE OF GOODS AND/OR SERVICES. The goods and/or services provided by Hi-Speed pursuant to any quotation shall be limited exclusively to those goods and/or services expressly identified therein. Hi-Speed does not assume any responsibility and/or liability for the failure to provide any other goods and/or services not identified in any quotation. Modifications, additions or deletions to or from the scope referenced in any quotation shall only bee effective if evidenced in writing and signed by Hi-Speed. The sale of any of all goods and/or services affected by such modification, addition or deletion shall be subject to these same Standard Terms and Conditions whether or not referenced therein.
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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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- 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.
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