



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

AC Recondition Repair Report

FolderID: 98122
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Almatis Inc/RCP Bauxite (10014)
4701 Alcoa Road
Bauxite, AR 72011

Priorities Found: ● 3 - High ● 13 - Good

General

1. Job Number	98122
2. Report Date	04/20/2021
3. Customer	ALMATIS

Name Plate Information

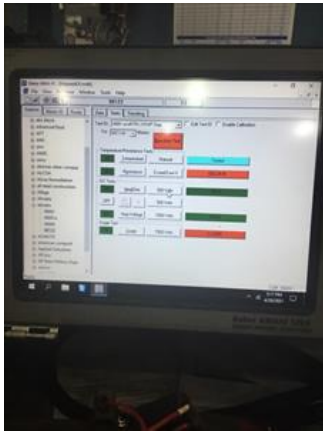




4. Manufacturer	BALDOR	P5
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5. Model	CAT# 47226725	
6. Serial Number	Z1702010102	
7. Horsepower	20	
8. KW		
9. Volts	460	
10. Amps	24	
11. RPM	1765	
12. Frame	256T	
13. Enclosure	TEFC	
14. Cycles	60	
15. Phase	3	
16. Service Factor	1.15	
17. Motor Mount Position		
Initial Inspection		
18. Number of Leads	3	
19. Lead Length		
20. Lead Size		
21. Lead Condition	(P) Pass	P42
		
22. Lead Markings	1-3	
23. Lug Size, Condition, and Type		
24. Winding RTD's		
25. Winding Rtd's Condition		
26. Shaft Run Out	0.001	

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27. Does Shaft Turn Freely	yes	
28. Does Shaft Have Visible Damage	no	P94
		
29. Bearing Rtd's		
30. Bearing Rtd's Condition		
31. Contamination <i>Grease dirty</i>		P104
		
32. Frame Condition	(P) Pass	
33. Fan Condition	(P) Pass	P109
		
34. Broken or missing components		
Initial Electric Test		
35. Resistance to Ground		

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36.	Winding Resistance 1-2		
37.	Winding Resistance 2-3		
38.	Winding Resistance 1-3		
39.	Resistive Imbalance		
40.	Hi-Pot		
41.	Surge Test	(F) Fail	
42.	Stator Condition	pass	
43.	Failure Location		
Initial Rotor Inspection			
44.	Rotor Type	squirrel cage laminate	
45.	Air Gap <10% Variation		
46.	Number of Rotor Bars		
47.	Number of Broken Rotor Bars		
48.	Growler Test	(P) Pass	
49.	Rotor Condition	(P) Pass	P50
			
Mechanical Inspection			
50.	Bearing Manufacture	FAG	
51.	Bearing DE Size	6309	P15
			
52.	Bearing DE Type	regular ball bearing	
53.	DE Bearing Qty.	1	

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55. Bearing ODE Type

regular ball bearing

56. ODE Bearing Qty.

1

57. Insulated Bearing

no

58. Lubrication Type

grease

☒ 59. Grease Condition

(F) Fail

P74


☒ 60. Bearing Retainers

(Y) Yes

P80



61. Shaft Grounding Device


(NA) Not Applicable

62. DE Seal

63. DE Seal Type/Size


64. ODE Seal

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65.	ODE Seal Type/Size	
Root Cause of Failure		
66.	Component Failure	windings tested bad
67.	Cause of Failure	<i>Windings shorted on legs 2&3 and 1&3. Tested bad on both machines.</i>
68.	Comments	<i>Re-sleeve O.D.E housing. Rewind stator.</i>
69.	Service Technician	Terrence. Holland
		

Machine Fit Inspection Report		
70.	Shaft Run Out	(P) Pass
71.	Initial Shaft Run Out	0.001 "
72.	Final Shaft Run Out	
73.	DE Bearing Shaft Fit	(P) Pass
74.	DE Initial Shaft Bearing Fit Size 1	1.7218 "
75.	DE Initial Shaft Bearing Fit Size 2	1.722 "
76.	DE Initial Shaft Bearing Fit Size 3	1.722 "
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	1.575 "
82.	ODE Initial Shaft Bearing Fit Size 2	1.575 "
83.	ODE Initial Shaft Bearing Fit Size 3	1.5752 "
84.	ODE Finial Shaft Bearing Fit Size 1	
85.	ODE Finial Shaft Bearing Fit Size 2	
86.	ODE Finial Shaft Bearing Fit Size 3	
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 Initial Endbell Fit Size 1	3.9379 "
95.	DE Initial Endbell Fit Size 2	3.9378 "
96.	DE Initial Endbell Fit Size 3	3.9379 "
97.	DE Final Endbell Fit Size 1	
98.	DE Finial 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.	Finial Endbell Air Seal Fit Size	

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104. ODE Endbell Fit	(F) Fail
105. ODE Initial Endbell Fit Size 1	3.1505 "
106. ODE Initial Endbell Fit Size 2	3.1507 "
107. ODE Initial Endbell Fit Size 3	3.1508 "
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 Final Endbell Seal Fit Size	
115. Foot Flatness	(P) Pass
116. Foot Condition	(P) Pass
117. Flange Condition	(NA) Not Applicable
118. Service Technician	Terrence Holland
	

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

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

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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