



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

AC Recondition Repair Report

FolderID: 98122
FormID: 10465616

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

Priorities Found: ● 3 - High ● 14 - Good

General

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

Name Plate Information

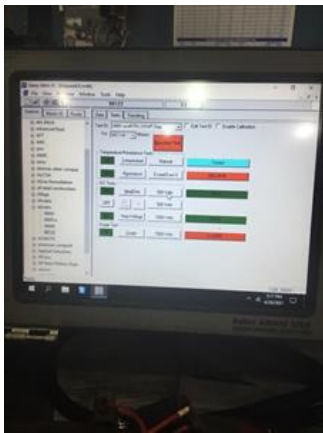
4. Manufacturer	BALDOR
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P5






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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	3.1497 "	P149



109. ODE Final Endbell Fit Size 2	3.1498 "	
110. ODE Final Endbell Fit Size 3	3.1498 "	
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	

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



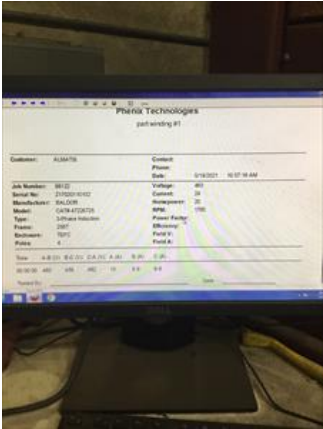
127. Meggar Testing Reading
128. Surge Test
129. Hi-Pot
130. Winding Resistance 1-2
131. Winding Resistance 2-3

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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		
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	P136









159. Service Technician

Terrence. Holland

Terrence Holland