

# **Motor Shop Repairs**

## **Job Number 98082**

Prepared for Almatis Inc/RCP Bauxite (10014)

4701 Alcoa Road Bauxite AR 72011

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## **AC Recondition Repair Report**

Almatis Inc/RCP Bauxite (10014)

4701 Alcoa Road Bauxite, AR 72011

Priorities Found: 1 - High

15 - Good

Gene	eral			
1.	Job Number		98082	
2.	Report Date		4/9/2021	
3.	Customer		ALMATIS	
Name	e Plate Informat	ion		

4. Manufacturer U.S. MOTORS











5.	Model	7975B
6.	Serial Number	
7.	Horsepower	75
8.	KW	
9.	Volts	460
10.	Amps	86
11.	RPM	1780
12.	Frame	365T
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	10 Inches
20.	Lead Size	4
<b>2</b> 1.	Lead Condition	(P) Pass



22.	Lead Markings	1-3
23.	Lug Size, Condition, and Type	
24.	Winding RTD's	(NA) Not Applicable
25.	Winding Rtd's Condition	(NA) Not Applicable
26.	Shaft Run Out	
27.	Does Shaft Turn Freely	no
28.	Does Shaft Have Visible Damage	no
29.	Bearing Rtd's	(NA) Not Applicable
30.	Bearing Rtd's Condition	(NA) Not Applicable
31.	Contamination	
	No	
32.	Frame Condition	(P) Pass
33.	Fan Condition	(F) Fail





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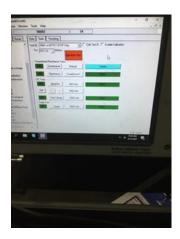


34. Broken or missing components Fan broken

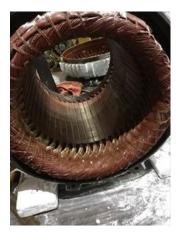


Initial	Electric Test	
35.	Resistance to Ground	Mohm
36.	Winding Resistance 1-2	
37.	Winding Resistance 2-3	
38.	Winding Resistance 1-3	
39.	Resistive Imbalance	
40.	Hi-Pot	

41. Surge Test (P) Pass



#### 42. Stator Condition





43. Failure Location

Initial Rotor Inspection

44. Rotor Type cast aluminum

45. Air Gap <10% Variation

46. Number of Rotor Bars

47. Number of Broken Rotor Bars

48. Growler Test

49. Rotor Condition (P) Pass



#### **Mechanical Inspection**

50. Bearing Manufacture51. Bearing DE Size6313 2Z





52. Bearing DE Type	Ball bearing
53. DE Bearing Qty.	1
54. Bearing ODE Size	6212





55.	Bearing ODE Type	ball bearing	
56.	ODE Bearing Qtv.	1	

57.	Insulated Bearing	no
58.	Lubrication Type	grease
59.	Grease Condition	(NA) Not Applicable
60.	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	
67.	Cause of Failure	
68.	Comments	
69.	Service Technician	
Mach	ine Fit Inspection Report	
70.	Shaft Run Out	





71. Initial Shaft Run Out

72. Final Shaft Run Out

73. DE Bearing Shaft Fit

Bearing race welded to shaft

(NA) Not Applicable



- 74. DE Initial Shaft Bearing Fit Size 1
- 75. DE Initial Shaft Bearing Fit Size 2

76.	DE Initial Shaft Bearing Fit Size 3	
77.	DE Finial Shaft Bearing Fit Size 1	
78.	DE Finial Shaft Bearing Fit Size 2	
79.	DE Finial Shaft Bearing Fit Size 3	
<b>8</b> 0.	ODE Bearing Shaft Fit	(P) Pass



81.	ODE Initial Shaft Bearing Fit Size 1	2.3629 "
82.	ODE Initial Shaft Bearing Fit Size 2	2.3629 "
83.	ODE Initial Shaft Bearing Fit Size 3	2.3629 "
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	(NA) Not Applicable
-	Bearing fit undersized	



94. DE Initial Endbell Fit Size 1	5.5109 "
95. DE Initial Endbell Fit Size 2	5.5109 "
96. DE Initial Endbell Fit Size 3	5.5109 "



105. ODE Initial Endbell Fit Size 1	4.3315 "
106. ODE Initial Endbell Fit Size 2	4.3315 "
107. ODE Initial Endbell Fit Size 3	4.3315 "
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
116. Foot Condition	(P) Pass
117. Flange Condition	(NA) Not Applicable
118. Service Technician	RW



### **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
	mbly and Final Test
	Meggar Testing Reading
	Surge Test
_	Hi-Pot
	Winding Resistance 1-2
	Winding Resistance 2-3
	Winding Resistance 1-3
	Test Run Voltage Phase A
	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
	Motor Paint
159.	Service Technician

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