

# **Motor Shop Repairs**

## Job Number 97741

Prepared for ALCOA REMEDIATION

1401 BAUXITE CUTOFF BAUXITE AR 72011

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**AC Recondition Repair Report** 

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

> FolderID: 97741 FormID: 9767403

### **ALCOA REMEDIATION**

1401 BAUXITE CUTOFF BAUXITE, AR 72011

Priorities Found: 1 - High

5 - Good

#### General

1. Job Number 97741

2. Report Date

Customer **ALCOA REMEDIATION** 

#### **Name Plate Information**

Manufacturer **SIEMENS** 





















5.	Model	TYPE: RGZPSD
6.	Serial Number	
7.	Horsepower	200
8.	KW	
9.	Volts	460
10.	Amps	225
11.	RPM	1785
12.	Frame	447TS
13.	Enclosure	
14.	Cycles	60

15.	Phase 3
16.	Service Factor 1.15
17.	Motor Mount Position
Initial	Inspection
	Number of Leads
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
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
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
	Growler Test
49.	Rotor Condition
Mecha	anical Inspection

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51.	Bearing DE Size	6316
52.	Bearing DE Type	
53.	DE Bearing Qty.	
54.	Bearing ODE Size	6316
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	
	None found	

#### 68. Comments

2 - 6316 bearings, sleeve ODE bell, reseal winding where connection insulation was lost.



69. Service Technician David Maclin

N	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	3.1498 "		
	75.	DE Initial Shaft Bearing Fit Size 2	3.1498 "		
	76.	DE Initial Shaft Bearing Fit Size 3	3.1498 "		
	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	3.1502 "		
	82.	ODE Initial Shaft Bearing Fit Size 2	2 <b>3.1502</b> "		
	83.	ODE Initial Shaft Bearing Fit Size 3	3 <b>.1502</b> "		
	84.	ODE Finial Shaft Bearing Fit Size 1	l		
	85.	ODE Finial Shaft Bearing Fit Size 2	2		
	86.	ODE Finial Shaft Bearing Fit Size 3	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			
	94.	DE Initial Endbell Fit Size 1	6.692 "		
	95.	DE Initial Endbell Fit Size 2	6.6935 "		

96.	DE Initial Endbell Fit Size 3	6.6927 "
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	
104.	ODE Endbell Fit	(F) Fail
105.	ODE Initial Endbell Fit Size 1	6.6945 "
106.	ODE Initial Endbell Fit Size 2	6.6945 "
107.	ODE Initial Endbell Fit Size 3	6.6945 "
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	
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	David Maclin
Balan	cing 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	
Assen	nbly and Final Test	
127.	Meggar Testing Reading	

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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 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



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