

**AC Recondition Repair Report** 

FolderID: 98173 FormID: 10572705

7030 Ryburn Dr Millington, Tn 38053 901-873-5300

Hi-Speed Industrial Service

Arauco-Malvern MDF (10298) 1275 Willamette Rd

Priorities Found: 4 - High

Malvern, AR 72104

6 - Good

	_		
Gener	al		
1.	Job Number	98173	
2.	Report Date	05/01/2021	
3.	Customer	ARAUCO	
Name	Plate Information		ō
4.	Manufacturer	SIEMENS	P5





















5.	Model	1LA04454SD42	
6.	Serial Number	7K516623210836	
7.	Horsepower	150	
8.	KW		
9.	Volts	460	
10.	Amps	170	
11.	RPM	1780	
12.	Frame	445TS	
13.	Enclosure	TEFC	
14.	Cycles	60	
15.	Phase	3	

16.	Service Factor	1.15	
17.	Motor Mount Position		
Initial	Inspection		
18.	Number of Leads	6	
19.	Lead Length	16 Inches	
20.	Lead Size	1	
21.	Lead Condition	(P) Pass	
22.	Lead Markings	tape numbers 1-3	
23.	Lug Size, Condition, and Type		
	3/8 good		
24.	Winding RTD's	(NA) Not Applicable	
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	, , , , ,	
31.	Contamination		
32.	Frame Condition		
33.	Fan Condition	(F) Fail	
34.	Broken or missing components		
	Fan shattered fan cover bolts broken off in ODE end bell		
Initial	Electric Test		o
	The Total Control Cont		
36.	Winding Resistance 1-2		
37.	Winding Resistance 2-3		
38.	Winding Resistance 1-3		
39.	Resistive Imbalance		
40.	LUB :		
	Hi-Pot		
41.	Surge Test		
41. 42.	Surge Test Stator Condition		
41. 42. 43.	Surge Test Stator Condition Failure Location		
41. 42. 43.	Surge Test Stator Condition Failure Location Rotor Inspection	cast aluminum	

45. Air Gap <10% Variation

46.	Number of Rotor Bars	36
47.	Number of Broken Rotor Bars	0
48.	Growler Test	(P) Pass
<b>4</b> 9.	Rotor Condition	(P) Pass

## **Mechanical Inspection**

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Ρ1



	51.	Bearing DE Size	6316 2Z	
	52.	Bearing DE Type	ball	
	53.	DE Bearing Qty.	1	
	54.	Bearing ODE Size	6316	
	55.	Bearing ODE Type	ball	
	56.	ODE Bearing Qty.	1	
	57.	Insulated Bearing		
	58.	Lubrication Type	polyrex	
	59.	Grease Condition	(F) Fail	
	60.	Bearing Retainers		
	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		
В	204.0	and of Failure		

## **Root Cause of Failure**

66. Component Failure end bell fits

67. Cause of Failure *Moisture* 

68. Comments

Sleeve Both end bells, 2x 63162Z, extract broken bolts for fan cover, replace fan (Aluminum 2.55"/64mm shaft size)

69. Service Technician David Maclin

## **Machine Fit Inspection Report**

	70	Chaft Dun Out	
73. DE Boaring Shaft Run Out  73. DE Boaring Shaft Fit  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 3  78. DE Finial Shaft Bearing Fit Size 1  78. DE Finial Shaft Bearing Fit Size 2  79. DE Finial Shaft Bearing Fit Size 2  80. ODE Bearing Shaft Fit  80. ODE Bearing Shaft Fit  81. ODE Initial Shaft Bearing Fit Size 3  82. ODE Initial Shaft Bearing Fit Size 1  83. ODE Initial Shaft Bearing Fit Size 2  84. ODE Finial Shaft Bearing Fit Size 2  85. ODE Finial Shaft Bearing Fit Size 2  86. ODE Finial Shaft Bearing Fit Size 2  87. DE Air Seal Shaft Fit  88. DE Initial Air Seal Shaft Size  89. DE Finial Shaft Bearing Fit Size 2  80. ODE Initial Shaft Bearing Fit Size 2  80. DE Finial Shaft Bearing Fit Size 3  81. ODE Finial Shaft Bearing Fit Size 3  82. DE Finial Shaft Bearing Fit Size 4  83. DE Initial Air Seal Shaft Size  84. DE Initial Air Seal Shaft Size  85. DE Finial Air Seal Shaft Size  86. DE Finial Air Seal Shaft Size  87. DE Air Seal Shaft Fit  87. ODE Initial Air Seal Shaft Size  88. DE Initial Endbell Fit Size 1  89. DE Initial Endbell Fit Size 1  80. DE Initial Endbell Fit Size 1  80. DE Initial Endbell Fit Size 1  81. DE Initial Endbell Fit Size 1  82. DE Finial Endbell Fit Size 1  83. DE Finial Endbell Fit Size 1  84. DE Finial Endbell Fit Size 1  85. DE Finial Endbell Fit Size 1  86. DE Finial Endbell Fit Size 2  87. DE Finial Endbell Fit Size 2  88. DE Finial Endbell Fit Size 1  89. DE Finial Endbell Fit Size 2  80. DE Initial Endbell Fit Size 2  80. DE Initial Endbell Fit Size 3  80. DE Finial Endbell Fit Size 1  80. DE Endbell Fit Size 2  80. DE Endbell Fit Size 3  80. DE Endbell Fit Size 1  80.	70.	Shaft Run Out	
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107. ODE Initial Endbell Fit Size 3  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  116. Foot Condition			
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<ul> <li>110. ODE Final Endbell Fit Size 3</li> <li>111. ODE Endbell Fit Insulated</li> <li>112. ODE Endbell Air Seal Fit</li> <li>113. ODE Initial Endbell Seal Fit Size</li> <li>114. ODE Finial Endbell Seal Fit Size</li> <li>115. Foot Flatness</li> <li>116. Foot Condition</li> </ul>			
<ul> <li>111. ODE Endbell Fit Insulated</li> <li>112. ODE Endbell Air Seal Fit</li> <li>113. ODE Initial Endbell Seal Fit Size</li> <li>114. ODE Finial Endbell Seal Fit Size</li> <li>115. Foot Flatness</li> <li>116. Foot Condition</li> </ul>			
<ul> <li>112. ODE Endbell Air Seal Fit</li> <li>113. ODE Initial Endbell Seal Fit Size</li> <li>114. ODE Finial Endbell Seal Fit Size</li> <li>115. Foot Flatness</li> <li>116. Foot Condition</li> </ul>			
<ul> <li>113. ODE Initial Endbell Seal Fit Size</li> <li>114. ODE Finial Endbell Seal Fit Size</li> <li>115. Foot Flatness</li> <li>116. Foot Condition</li> </ul>	111.	ODE Endbell Fit Insulated	
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115. Foot Flatness 116. Foot Condition			
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118	Service Technician
	ing Report
	Balance Type
	Balance Operating Speed
	Start Left End
	Start Right End
	Balancing Specification
	Finish Left End
	Finish Right End
	Service Technician
	bly 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
	Test Run Voltage Phase B
	Test Run Amps B
	Test Run Voltage Phase C
	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