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

AC Recondition Repair Report

FolderID: 98173
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Arauco-Malvern MDF (10298)
1275 Willamette Rd
Malvern, AR 72104

Priorities Found: **4 - High** **6 - Good**

General

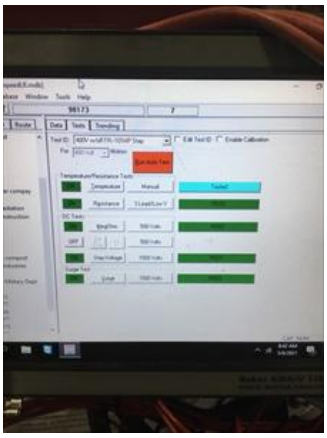
1.	Job Number	**98173**
2.	Report Date	**05/01/2021**
3.	Customer	**ARAUCO**

Name Plate Information

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			
35.	Resistance to Ground	**Mohm**	P7



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	**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**
●	49.	Rotor Condition	**(P) Pass**

Mechanical Inspection

50. Bearing Manufacture P1

	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	

Root Cause of Failure

	66.	Component Failure	**end bell fits**
	67.	Cause of Failure	

Moisture

68. Comments

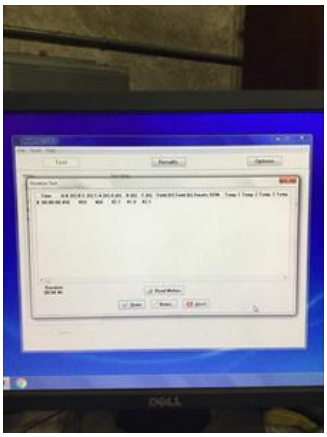
Sleeve Both end bells, 2x 63162Z, extract broken bolts for fan cover, replace fan (Aluminum 2.55"/64mm shaft size)

69. Service Technician **David Maclin**

Machine Fit Inspection Report

	70.	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	**3.1499 "**
	75.	DE Initial Shaft Bearing Fit Size 2	**3.1497 "**
	76.	DE Initial Shaft Bearing Fit Size 3	**3.1499 "**
	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	**3.1499 "**
	82.	ODE Initial Shaft Bearing Fit Size 2	**3.15 "**
	83.	ODE Initial Shaft Bearing Fit Size 3	**3.1501 "**
	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	**(F) Fail**
	94.	DE Initial Endbell Fit Size 1	
	95.	DE Initial Endbell Fit Size 2	
	96.	DE Initial Endbell Fit Size 3	
	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	
	106.	ODE Initial Endbell Fit Size 2	
	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	
	117.	Flange Condition	

118.	Service Technician		
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		
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**