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

AC Recondition Repair Report

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

Priorities Found: **3 - High** **11 - Good**

General

1.	Job Number	**98099**
2.	Report Date	**04/14/2021**
3.	Customer	**ARAUCO**

Name Plate Information

4.	Manufacturer	**SIEMENS**	P5

5.	Model	**PART# 1LA03654FP21**	
6.	Serial Number	**D05T0141EU 14**	
7.	Horsepower	**75**	
8.	KW		
9.	Volts	**460**	
10.	Amps	**87.4**	
11.	RPM	**1775**	
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	**9**	P13

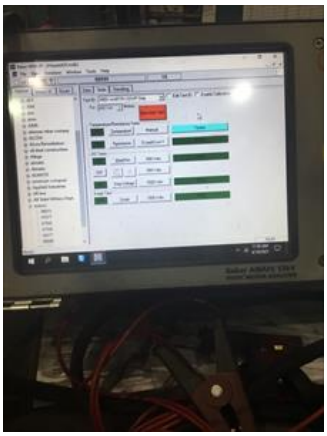
19.	Lead Length	**12 Inches**	
20.	Lead Size		

●	21.	Lead Condition	**(P) Pass**	P42

	22.	Lead Markings	**1-9**	
	23.	Lug Size, Condition, and Type		
	24.	Winding RTD's		
	25.	Winding Rtd's Condition		
	26.	Shaft Run Out	**0.001**	
	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		
●	32.	Frame Condition	**(P) Pass**	
●	33.	Fan Condition	**(P) Pass**	P109

	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	**(P) Pass**	P58



42.	Stator Condition	**good**	P65

43.	Failure Location	**ode housing fit**	

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		
49.	Rotor Condition	**(P) Pass**	P50

Mechanical Inspection

50.	Bearing Manufacture	**nachi**	P1

51.	Bearing DE Size	**6314 ZE C3**	
52.	Bearing DE Type	**regular ball bearing**	
53.	DE Bearing Qty.	**1**	
54.	Bearing ODE Size	**6210 ZE C3**	P43

55.	Bearing ODE Type	**regular ball bearing**	P53

	56.	ODE Bearing Qty.	**1**	
	57.	Insulated Bearing	**no**	
	58.	Lubrication Type	**grease**	
●	59.	Grease Condition	**(F) Fail**	P74

60.	Bearing Retainers	**(NA) Not Applicable**	
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	**ODE housing sleeve.**
	67.	Cause of Failure	
		Grease contaminated and ode sleeve loose in housing. Both bearings have frosting and the ode bearing shows signs of fluting. The drive end bearing housing measures too tight.	
	68.	Comments	
	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	**2.7568 "**
	75.	DE Initial Shaft Bearing Fit Size 2	**2.7567 "**
	76.	DE Initial Shaft Bearing Fit Size 3	**2.7566 "**
	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	**1.9696 "**
	82.	ODE Initial Shaft Bearing Fit Size 2	**1.9696 "**
	83.	ODE Initial Shaft Bearing Fit Size 3	**1.9693 "**
	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	**5.9043 "**
	95.	DE Initial Endbell Fit Size 2	**5.9042 "**
	96.	DE Initial Endbell Fit Size 3	**5.9043 "**
	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**	P145

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	**(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	

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
159.	Service Technician