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: **2 - High** **13 - Good**

General

1.	Job Number	**98077**
2.	Report Date	**04/08/2021**
3.	Customer	**ARAUCO**

Name Plate Information

4.	Manufacturer	**SIEMENS**	P5

5.	Model	**PART# 1LA04474FP42**
6.	Serial Number	**K03TESP.55 1**
7.	Horsepower	**200**
8.	KW	
9.	Volts	**460**
10.	Amps	**225**
11.	RPM	**1785**
12.	Frame	**447TS**
13.	Enclosure	**TEFC**
14.	Cycles	**60**
15.	Phase	**3**

	16.	Service Factor	**1.15**
	17.	Motor Mount Position	**horizontal**

Initial Inspection

	18.	Number of Leads	**6**
	19.	Lead Length	
	20.	Lead Size	
●	21.	Lead Condition	**(P) Pass**
	22.	Lead Markings	**1-1/2-2/3-3**
	23.	Lug Size, Condition, and Type	
	24.	Winding RTD's	
	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	
	30.	Bearing Rtd's Condition	
	31.	Contamination	
●	32.	Frame Condition	**(P) Pass**
●	33.	Fan Condition	**(P) Pass**
	34.	Broken or missing components	

NA

Initial Electric Test

	35.	Resistance to Ground	**0 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	**(F) Fail**
	42.	Stator Condition	**clean**
	43.	Failure Location	**unknown**

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	**ORS**	
	51.	Bearing DE Size	**6316**	
	52.	Bearing DE Type	**ball**	P23

	53.	DE Bearing Qty.	**1**	
	54.	Bearing ODE Size	**6316**	
	55.	Bearing ODE Type	**ball**	P53

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

60.	Bearing Retainers	**(Y) Yes**	P80

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	**bearings**
67.	Cause of Failure ***Bearings show signs of frosting and brenalling***	
68.	Comments ***Rewind, 2x 6316, 3 5/8 Aegis ring***	
69.	Service Technician	

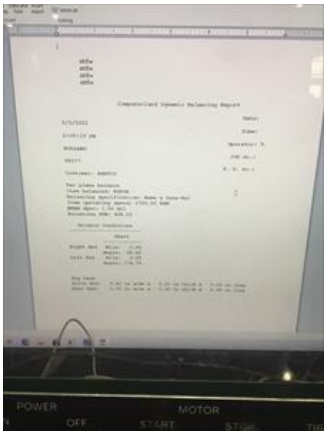
Machine Fit Inspection Report

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	**3.1501 "**
75.	DE Initial Shaft Bearing Fit Size 2	**3.1501 "**
76.	DE Initial Shaft Bearing Fit Size 3	**3.1501 "**
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	**3.1503 "**
82.	ODE Initial Shaft Bearing Fit Size 2	**3.1502 "**
83.	ODE Initial Shaft Bearing Fit Size 3	**3.1503 "**
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	**(P) Pass**	
	94. DE Initial Endbell Fit Size 1	**6.6941 "**	
	95. DE Initial Endbell Fit Size 2	**6.6942 "**	
	96. DE Initial Endbell Fit Size 3	**6.6944 "**	
	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	**(P) Pass**	
	105. ODE Initial Endbell Fit Size 1	**6.6937 "**	
	106. ODE Initial Endbell Fit Size 2	**6.6939 "**	
	107. ODE Initial Endbell Fit Size 3	**6.6941 "**	
	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		

Balancing Report

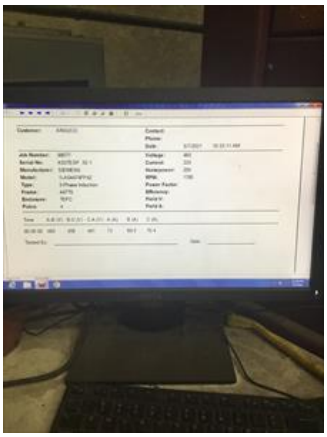
	119. Balance Type	**nema standard**	P6



	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	P136



159. Service Technician **Terrence Holland**