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

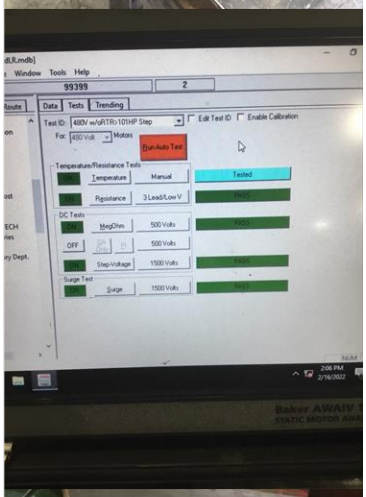
1.	Job Number	**99399**
2.	Report Date	**02/16/2022**
3.	Customer	**Arauco**

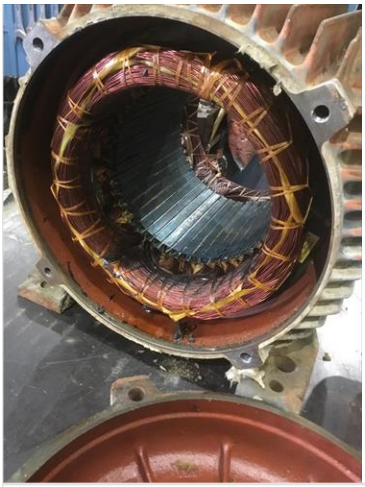
Name Plate Information

4.	Manufacturer	**Siemens**	P5







5.	Model	**1LA03244FP21**	
6.	Serial Number	**K06T0138EU 11**	
7.	Horsepower	**40**	
8.	KW		
9.	Volts	**460**	
10.	Amps	**47.1**	
11.	RPM	**1770**	
12.	Frame	**324T**	
13.	Enclosure	**TEFC**	
14.	Cycles	**60**	
15.	Phase	**3**	
16.	Service Factor	**1.15**	
17.	Motor Mount Position		

Initial Inspection

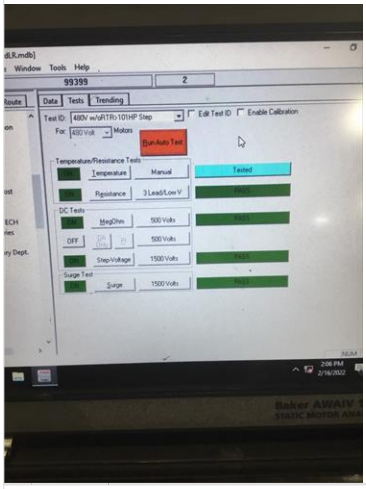
18.	Number of Leads	**9**	P13

19.	Lead Length	**14 Inches**	
20.	Lead Size		
21.	Lead Condition	**(P) Pass**	
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	**yes**	
28.	Does Shaft Have Visible Damage	**no**	
29.	Bearing Rtd's		
30.	Bearing Rtd's Condition		
31.	Contamination ***Grease***		
32.	Frame Condition	**(P) Pass**	
33.	Fan Condition	**(P) Pass**	
34.	Broken or missing components ***Broke fan cover bolt in ode***		

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		
43.	Failure Location		

Initial Rotor Inspection

44.	Rotor Type	**cast aluminum**	
45.	Air Gap <10% Variation		
46.	Number of Rotor Bars		
47.	Number of Broken Rotor Bars	**0**	
48.	Growler Test	**(P) Pass**	
49.	Rotor Condition	**(P) Pass**	

Mechanical Inspection

50.	Bearing Manufacture	**skf**	
51.	Bearing DE Size	**6312**	
52.	Bearing DE Type	**ball bearing**	
53.	DE Bearing Qty.	**1**	
54.	Bearing ODE Size	**6210**	
55.	Bearing ODE Type	**ball bearing**	
56.	ODE Bearing Qty.	**1**	
57.	Insulated Bearing		

	58.	Lubrication Type	**grease**
🔴	59.	Grease Condition	**(F) Fail**
		Mixed	
	60.	Bearing Retainers	**(NA) Not Applicable**
	61.	Shaft Grounding Device	
	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 and both end bells are over sized**
	67.	Cause of Failure	
		Wear and mixing grease	
	68.	Comments	
		Recommend new bearings and reconditioning	
	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	**2.3626 "**
	75.	DE Initial Shaft Bearing Fit Size 2	**2.3625 "**
	76.	DE Initial Shaft Bearing Fit Size 3	**2.3625 "**
	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	**1.9689 "**
	82.	ODE Initial Shaft Bearing Fit Size 2	**1.9688 "**
	83.	ODE Initial Shaft Bearing Fit Size 3	**1.9688 "**
	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	**5.1194 "**
	95.	DE Initial Endbell Fit Size 2	**5.1198 "**
	96.	DE Initial Endbell Fit Size 3	**5.1189 "**
	97.	DE Final Endbell Fit Size 1	**5.1186 "**
	98.	DE Finial Endbell Fit Size 2	**5.1186 "**

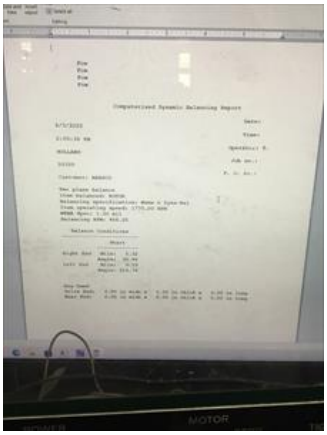
99.	DE Final Endbell Fit Size 3	**5.1186 "**	P140

100.	DE Endbell Fit Insulated	**(NA) Not Applicable**	
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	**3.5454 "**	
106.	ODE Initial Endbell Fit Size 2	**3.5452 "**	
107.	ODE Initial Endbell Fit Size 3	**3.5449 "**	
108.	ODE Final Endbell Fit Size 1	**3.5434 "**	
109.	ODE Final Endbell Fit Size 2	**3.5434 "**	
110.	ODE Final Endbell Fit Size 3	**3.5434 "**	P151

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	**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

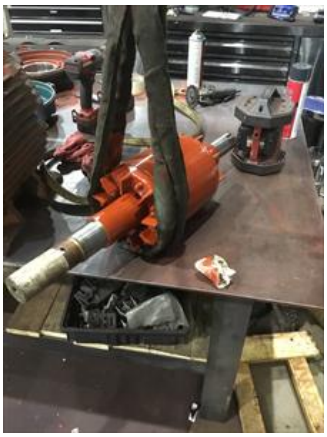
154. Temp at 45 minutes

155. Temp at 50 minutes

156. Temp at 55 minutes

157. Temp at 60 minutes

158. Motor Paint P136



159. Service Technician **Terrence. Holland**