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

AC Recondition Repair Report

FolderID: 98359
FormID: 10918097

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

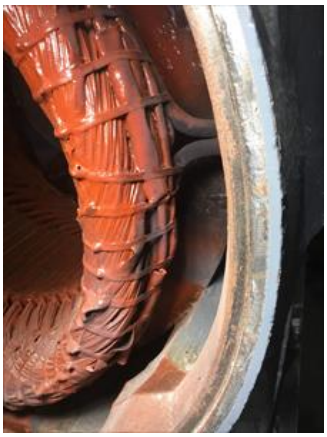
Priorities Found: **2 - High** **14 - Good**

General

1.	Job Number	**98359**
2.	Report Date	**06/23/2021**
3.	Customer	**ARAUCO**

Name Plate Information

4.	Manufacturer	**RELIANCE**	P5



5.	Model	**TYPE: P**	
6.	Serial Number		
7.	Horsepower	**100**	
8.	KW		
9.	Volts	**460**	
10.	Amps	**120**	
11.	RPM	**1770**	
12.	Frame	**404TS**	
13.	Enclosure	**DP**	
14.	Cycles	**60**	
15.	Phase	**3**	
16.	Service Factor	**1.15**	
17.	Motor Mount Position		

Initial Inspection

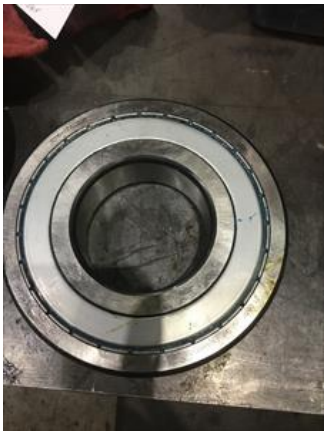
18.	Number of Leads	**3**	
19.	Lead Length	**12 Inches**	
20.	Lead Size		
21.	Lead Condition	**(P) Pass**	
22.	Lead Markings		
23.	Lug Size, Condition, and Type		P67

24.	Winding RTD's		
25.	Winding Rtd's Condition		
26.	Shaft Run Out	**0.001**	

	27. Does Shaft Turn Freely		
	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	**(NA) Not Applicable**	
	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	**(F) Fail**	
	42. Stator Condition	**good**	
	43. Failure Location	**coil**	
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	**0**	
●	48. Growler Test	**(P) Pass**	
●	49. Rotor Condition	**(P) Pass**	
Mechanical Inspection			
	50. Bearing Manufacture	**skf**	
	51. Bearing DE Size	**6316**	

52.	Bearing DE Type	**regular ball bearing**	P23



53.	DE Bearing Qty.	**1**	
54.	Bearing ODE Size	**6213**	
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	**(Y) Yes**	
61.	Shaft Grounding Device	**(NA) Not Applicable**	
62.	DE Seal		

63.	DE Seal Type/Size	
64.	ODE Seal	
65.	ODE Seal Type/Size	

Root Cause of Failure

66.	Component Failure	**windings shorted coil to coil**
67.	Cause of Failure ***Insulation worn***	
68.	Comments ***#2 bearing cap bolt holes stripped. Multiple stator end bell mount bolt holes stripped. One end bell mount bolt hole broken off.***	
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	**2.5595 "**
	75.	DE Initial Shaft Bearing Fit Size 2	**2.5594 "**
	76.	DE Initial Shaft Bearing Fit Size 3	**2.5595 "**
	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	**3.1497 "**
	82.	ODE Initial Shaft Bearing Fit Size 2	**3.1496 "**
	83.	ODE Initial Shaft Bearing Fit Size 3	**3.1496 "**
	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	**6.693 "**
	95.	DE Initial Endbell Fit Size 2	**6.6932 "**
	96.	DE Initial Endbell Fit Size 3	**6.6933 "**
	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	**4.7248 "**
106.	ODE Initial Endbell Fit Size 2	**4.725 "**
107.	ODE Initial Endbell Fit Size 3	**4.7252 "**
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	**Terrence. Holland**

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