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

AC Recondition Repair Report

FolderID: 99081
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Phelps Fan Manufacturing Co.
10701 Interstate 30
Little Rock, AR 72209

Priorities Found: **1 - High** **13 - Good**

General

1.	Job Number	**99081**
2.	Report Date	**12/08/2021**
3.	Customer	**Phelps Fan Manufacturing Co.**

Name Plate Information

4.	Manufacturer	**Siemens**	P5

5.	Model	
6.	Serial Number	
7.	Horsepower	**125 HP**
8.	KW	
9.	Volts	**460**
10.	Amps	**143**
11.	RPM	**1785 RPM**
12.	Frame	**444T**
13.	Enclosure	**TEFC**
14.	Cycles	**60**
15.	Phase	**3**

16.	Service Factor		
17.	Motor Mount Position		

Initial Inspection

18.	Number of Leads	**6**	P13

19.	Lead Length	**19 Inches**	
20.	Lead Size		
21.	Lead Condition	**(P) Pass**	
22.	Lead Markings	**1-3**	
23.	Lug Size, Condition, and Type		
24.	Winding RTD's		
25.	Winding Rtd's Condition		
26.	Shaft Run Out	**0.002**	
27.	Does Shaft Turn Freely		
28.	Does Shaft Have Visible Damage		
29.	Bearing Rtd's		
30.	Bearing Rtd's Condition		
31.	Contamination		P104

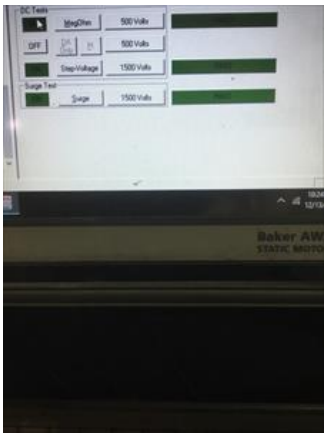
32.	Frame Condition	**(P) Pass**	P106

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		

Initial Rotor Inspection

44.	Rotor Type	**squirrel cage laminate**	
45.	Air Gap <10% Variation		
46.	Number of Rotor Bars	**0**	
47.	Number of Broken Rotor Bars		
48.	Growler Test	**(P) Pass**	
49.	Rotor Condition	**(P) Pass**	P50

Mechanical Inspection

50.	Bearing Manufacture	**ntn**	

	51.	Bearing DE Size	**Nu318**	P15

	52.	Bearing DE Type	**N.u**	
	53.	DE Bearing Qty.	**1**	
	54.	Bearing ODE Size	**6316**	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 **(Y) Yes** P80

61. Shaft Grounding Device **(NA) Not Applicable**

62. DE Seal P86

63. DE Seal Type/Size

64. ODE Seal

65. ODE Seal Type/Size

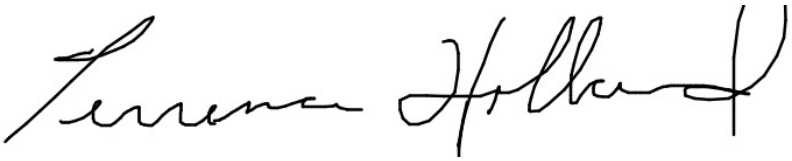
Root Cause of Failure

66. Component Failure **d.e. bearing**

67. Cause of Failure

Contaminated grease

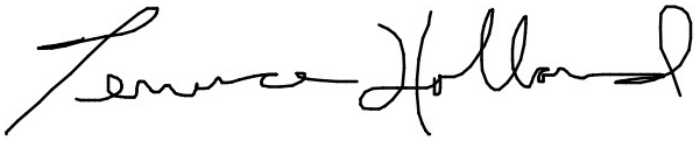
68.	Comments	
	Recondition/bearings.	
69.	Service Technician	**Terrence. Holland**



Machine Fit Inspection Report

70.	Shaft Run Out	**(P) Pass**
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	**3.5445 "**
75.	DE Initial Shaft Bearing Fit Size 2	**3.5443 "**
76.	DE Initial Shaft Bearing Fit Size 3	**3.5445 "**
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	**3.15 "**
82.	ODE Initial Shaft Bearing Fit Size 2	**3.15 "**
83.	ODE Initial Shaft Bearing Fit Size 3	**3.1498 "**
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	
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	
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	**(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	P136

159. Service Technician