



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

## AC Recondition Repair Report

FolderID: 99304  
FormID: 12677081

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

Priorities Found: ● 2 - High ● 6 - Good

### General

1. Job Number	99304
2. Report Date	01/27/2022
3. Customer	Phelps Fan Manufacturing Co.

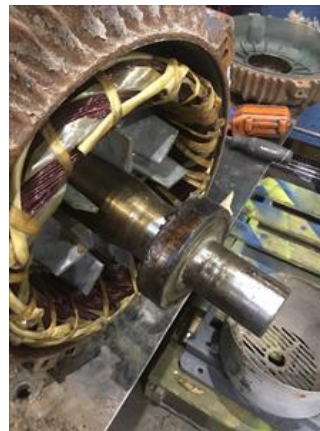
### Name Plate Information

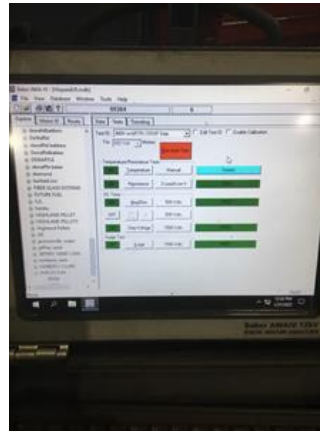


4. Manufacturer	Leeson	P5
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5. Model	N286T17FB2C
6. Serial Number	U64301496
7. Horsepower	30
8. KW	
9. Volts	460
10. Amps	37
11. RPM	1780
12. Frame	286T
13. Enclosure	TEFC
14. Cycles	60
15. Phase	3
16. Service Factor	1.15
17. Motor Mount Position	

#### Initial Inspection








18. Number of Leads

P13



19. Lead Length	
20. Lead Size	
21. Lead Condition	
22. Lead Markings	
23. Lug Size, Condition, and Type	
24. Winding RTD's	
25. Winding Rtd's Condition	
26. Shaft Run Out	

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27.	Does Shaft Turn Freely		
28.	Does Shaft Have Visible Damage		
29.	Bearing Rtd's		
30.	Bearing Rtd's Condition		
31.	Contamination		
32.	Frame Condition		
33.	Fan Condition		
34.	Broken or missing components		
<b>Initial Electric Test</b>			
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		
<b>Initial Rotor Inspection</b>			
44.	Rotor Type	squirrel cage laminate	P4
			
45.	Air Gap <10% Variation		
46.	Number of Rotor Bars		
47.	Number of Broken Rotor Bars		

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48. Growler Test

49. Rotor Condition

(P) Pass

P50



### Mechanical Inspection



50. Bearing Manufacture

Nachi

51. Bearing DE Size

6311 Z

P15



52. Bearing DE Type

regular ball bearing

53. DE Bearing Qty.

1

54. Bearing ODE Size

6309 C3

P43



55. Bearing ODE Type

regular ball bearing

56. ODE Bearing Qty.



1

57. Insulated Bearing

no

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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	bearings worn and bearing grease dirty
67. Cause of Failure	<i>Bearings/O.d.e housing fitbad.</i>
68. Comments	
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	2.1654 "
75. DE Initial Shaft Bearing Fit Size 2	2.1654 "
76. DE Initial Shaft Bearing Fit Size 3	2.1654 "
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	1.772 "
82. ODE Initial Shaft Bearing Fit Size 2	1.7718 "
83. ODE Initial Shaft Bearing Fit Size 3	1.772 "
84. ODE Finial Shaft Bearing Fit Size 1	

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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	4.7247 "	
95.	DE Initial Endbell Fit Size 2	4.725 "	
96.	DE Initial Endbell Fit Size 3	4.725 "	
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
	 Pitted/worn		
<div style="display: flex; justify-content: space-around;">   </div>			
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		
116.	Foot Condition		
117.	Flange Condition		
118.	Service Technician		

## Balancing Report

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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