

# **Motor Shop Repairs**

## Job Number 98982

Prepared for Pinnacle Structures, Inc. (11510)

2665 Highway 321 Bypass Cabot AR 72023

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### **AC Recondition Repair Report**

Pinnacle Structures, Inc. (11510) 2665 Highway 321 Bypass Cabot, AR 72023

Priorities Found: 16 - Good

Genera	al	
1.	Job Number	98982
2.	Report Date	11/8/2021
3.	Customer	Pinnacle Structures
Name	Plate Information	

4. Manufacturer WEG











5.	Model	025180T3E284T-BLK
6.	Serial Number	21AG02017 1039220658
7.	Horsepower	25
8.	KW	
9.	Volts	460
10.	Amps	29.9
11.	RPM	1770
12.	Frame	284T
13.	Enclosure	ODP

14.	Cycles	60
15.	Phase	3
16.	Service Factor	1.15
17.	Motor Mount Position	
Initial	Inspection	
18.	Number of Leads	9
19.	Lead Length	10 Inches
20.	Lead Size	14
<b>2</b> 1.	Lead Condition	(P) Pass
22.	Lead Markings	1-12
23.	Lug Size, Condition, and Type	
24.	Winding RTD's	(NA) Not Applicable
<b>2</b> 5.	Winding Rtd's Condition	(NA) Not Applicable
26.	Shaft Run Out	
27.	Does Shaft Turn Freely	yes
28.	Does Shaft Have Visible Damage	no
29.	Bearing Rtd's	(NA) Not Applicable
<b>3</b> 0.	Bearing Rtd's Condition	(NA) Not Applicable
31.	Contamination	
<b>3</b> 2.	Frame Condition	(P) Pass
<ul><li>33.</li></ul>	Fan Condition	(NA) Not Applicable
34.	Broken or missing components	
Initial	Electric Test	
35.	Resistance to Ground	0 Mohm
36.	Winding Resistance 1-2	
37.	Winding Resistance 2-3	
38.	Winding Resistance 1-3	
39.	Resistive Imbalance	
40.	Hi-Pot	
<b>4</b> 1.	Surge Test	(NA) Not Applicable

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42. Stator Condition rewind







43. Failure Location in slot core repair needed



Initial	Rotor Inspection	
44.	Rotor Type	cast aluminum
45.	Air Gap <10% Variation	
46.	Number of Rotor Bars	40
47.	Number of Broken Rotor Bars	0
48.	Growler Test	(P) Pass

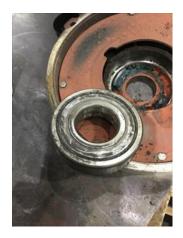
49. Rotor Condition (P) Pass



#### **Mechanical Inspection**

50. Bearing Manufacture NSK

51. Bearing DE Size 6311 1Z





52. Bearing DE Type	ball bearing
53. DE Bearing Qty.	1
54. Bearing ODE Size	6211 1Z





55.	. Bearing ODE Type	ball bearing
56.	De Dearing Qtv.	1

5	7. Insulated Bearing	no
58	B. Lubrication Type	grease
59	9. Grease Condition	(P) Pass
60	Bearing Retainers	(NA) Not Applicable
6	Shaft Grounding Device	(NA) Not Applicable
62	2. DE Seal	(NA) Not Applicable
63	3. DE Seal Type/Size	
64	4. ODE Seal	(NA) Not Applicable
6	5. ODE Seal Type/Size	
Roo	t Cause of Failure	
60	6. Component Failure	
6	7. Cause of Failure	
68	8. Comments	
69	9. Service Technician	
Mac	hine Fit Inspection Report	
70	0. Shaft Run Out	
7	1. Initial Shaft Run Out	
72	2. Final Shaft Run Out	
7:	3. DE Bearing Shaft Fit	(P) Pass



74. DE Initial Shaft Bearing Fit Size 1	2.1659 "
75. DE Initial Shaft Bearing Fit Size 2	2.1659 "
76. DE Initial Shaft Bearing Fit Size 3	2.1659 "
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





81.	ODE Initial Shaft Bearing Fit Size 1	2.1658 "
82.	ODE Initial Shaft Bearing Fit Size 2	2.1658 "
83.	ODE Initial Shaft Bearing Fit Size 3	2.1658 "
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 (NA) No	ot Applicable



94. DE Initial Endbell Fit Size 1	4.7261 "
95. DE Initial Endbell Fit Size 2	4.7261 "
96. DE Initial Endbell Fit Size 3	4.7261 "
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	(NA) Not Applicable
101. DE Endbell Air Seal Fit	





105. O	DE Initial Endbell Fit Size 1	3.9385 "
106. O	DE Initial Endbell Fit Size 2	3.9385 "
107. O	DE Initial Endbell Fit Size 3	3.9385 "
108. O	DE Final Endbell Fit Size 1	
109. O	DE Final Endbell Fit Size 2	
110. O	DE Final Endbell Fit Size 3	
111. O	DE Endbell Fit Insulated	(NA) Not Applicable
112. O	DE Endbell Air Seal Fit	
113. O	DE Initial Endbell Seal Fit Size	
114. O	DE Finial Endbell Seal Fit Size	
<b>115.</b> Fo	oot Flatness	(P) Pass
<b>116.</b> Fo	oot Condition	(P) Pass
<ul><li>117. Fla</li></ul>	ange Condition	(NA) Not Applicable
118. Se	ervice Technician	RW



#### **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

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