

# Motor Shop Repairs

# Job Number 98611

Prepared for AMERON PROTECTIVE COATINGS (11114)

11605 VIMY RIDGE ROAD ALEXANDER AR 72002

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### **AC Recondition Repair Report**

## **AMERON PROTECTIVE COATINGS** (11114) 11605 VIMY RIDGE ROAD

ALEXANDER, AR 72002

Priorities Found: 14 - Good

	11000000		
General			
1.	Job Number	98611	
2.	Report Date	8/18/2021	
3.	Customer	AMERON/PPG	
Nam	e Plate Information		
4.	Manufacturer	BALDOR	



















5.	Model	CAT # EM7053
6.	Serial Number	E31975684
7.	Horsepower	15
8.	KW	
9.	Volts	460
10.	Amps	17.5
11.	RPM	3520
12.	Frame	254T
13.	Enclosure	TEFC
14.	Cycles	60

15. Phase	3
16. Service Factor	1.00
17. Motor Mount Position	
Initial Inspection	
18. Number of Leads	9



10	Load Longth	0 Inches
19.	Lead Length	9 Inches
20.	Lead Size	14
21.	Lead Condition	(P) Pass
22.	Lead Markings	1-9
23.	Lug Size, Condition, and Type	
24.	Winding RTD's	(NA) Not Applicable
25.	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
30.	Bearing Rtd's Condition	(NA) Not Applicable
31.	Contamination	
	Water	
32.	Frame Condition	(P) Pass
33.	Fan Condition	(P) Pass



#### 34. Broken or missing components

Initia	Electric Test	
35.	Resistance to Ground	18.681 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	(P) Pass
-	Motor was full of water	
42.	Stator Condition	wash and bake



Before washing



Before washing

43.	Failure Location	
Initia	l Rotor Inspection	
44.	Rotor Type	cast aluminum
45.	Air Gap <10% Variation	
46.	Number of Rotor Bars	
47.	Number of Broken Rotor Bars	
48.	Growler Test	

49. Rotor Condition (P) Pass



#### **Mechanical Inspection**

50. Bearing Manufacture FAG

51. Bearing DE Size 6309ZZ





52. Bearing DE Typeball bearing53. DE Bearing Qty.154. Bearing ODE Size6208ZZ





Found moisture corrosion in bearing

55. Bearing ODE Type ball bearing

56	ODE Bearing Qty.	1
57	Insulated Bearing	no
58	Lubrication Type	grease
<b>5</b> 9	Grease Condition	(P) Pass



#### 60. Bearing Retainers



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	
67.	Cause of Failure	
68.	Comments	
69.	Service Technician	
Mach	ine Fit Inspection Report	
70.	Shaft Run Out	
71.	Initial Shaft Run Out	
72.	Final Shaft Run Out	

#### 73. DE Bearing Shaft Fit





74.	DE Initial Shaft Bearing Fit Size 1	1.772 "
75.	DE Initial Shaft Bearing Fit Size 2	1.772 "
76.	DE Initial Shaft Bearing Fit Size 3	1.772 "
77.	DE Finial Shaft Bearing Fit Size 1	
78.	DE Finial Shaft Bearing Fit Size 2	
79.	DE Finial Shaft Bearing Fit Size 3	
<b>8</b> 0.	ODE Bearing Shaft Fit	(P) Pass



81.	ODE Initial Shaft Bearing Fit Size 1	1.5753 "
82.	ODE Initial Shaft Bearing Fit Size 2	1.5753 "
83.	ODE Initial Shaft Bearing Fit Size 3	1.5753 "
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	3.9376 "
95. DE Initial Endbell Fit Size 2	3.9376 "
96. DE Initial Endbell Fit Size 3	3.9376 "
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	
102. Initial Endbell Air Seal Fit Siz	ze
103. Finial Endbell Air Seal Fit Siz	ze
104. ODE Endbell Fit	(P) Pass



105. ODE Initial Endbell Fit Size 1	3.1502 "
106. ODE Initial Endbell Fit Size 2	3.1502 "
107. ODE Initial Endbell Fit Size 3	3.1502 "
108. ODE Final Endbell Fit Size 1	II .
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 118. Service 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

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156. Temp at 55 minutes

157. Temp at 60 minutes	
158. Motor Paint	
159. Service Technician	



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- 8. WARRANTIES. Hi-Speed warrants that all goods shall conform in all material aspects to the goods identified in the quotation to Buyer and/or purchase order, and Hi-Speed makes to Buyer the manufacturer's express warranty for any goods sold to Buyer, which is offered by the manufacturer at the time of acceptance of any quotation by Buyer. This warranty is conditioned upon the installation, operation, and maintenance of the goods in accordance with the manufacturer's recommendations and/or standard industry practice and the goods at all times being operated or used under normal operating conditions for which they were designed. Hi-Speed, at its sole option, will repair or

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