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# **Motor Shop Repairs**

# Job Number 97927

Prepared for CoorsTek Inc.

3315 Boone Road Benton AR 72015

# **Table of Contents**



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Printed on 3/9/2021 Powered by INSPECTALL Table of Contents





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> FolderID: 97927 FormID: 10142955

## **AC Recondition Repair Report**

CoorsTek Inc. 3315 Boone Road Benton, AR 72015 Performed By: Motor Shop LR 2 Date Completed: 3/9/2021

Priorities Found: 11 - Good

General		
1.	Job Number	97927
2.	Report Date	
3.	Customer	CoorsTek

#### **Name Plate Information**

Manufacturer



















5.	Model
6.	Serial Number
7.	Horsepower
8.	KW
9.	Volts
10.	Amps
11.	RPM
12.	Frame
13.	Enclosure
14	Cycles

15	Phase	
	Service Factor	
	Motor Mount Position	
	Inspection	
	Number of Leads	9
19.	Lead Length	Inches
20.	Lead Size	
21.	Lead Condition	
22.	Lead Markings	1-9
23.	Lug Size, Condition, and Type	
24.	Winding RTD's	(NA) Not Applicable
25.	Winding Rtd's Condition	
26.	Shaft Run Out	
27.	Does Shaft Turn Freely	no
28.	Does Shaft Have Visible Damage	
29.	Bearing Rtd's	(NA) Not Applicable
30.	Bearing Rtd's Condition	
31.	Contamination	
32.	Frame Condition	
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.	•	
40.	Hi-Pot	
41.	Surge Test	(P) Pass



42. Stator Condition Wash and bake





43. Failure Location

### **Initial 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

## **Mechanical Inspection**



51. Bearing DE Size 206HDL





52. Bearing DE Type	Thrust Ball
53. DE Bearing Qty.	2
54. Bearing ODE Size	103T709-2 bower



55.	Bearing ODE Type	roller
56.	ODE Bearing Qty.	1
57.	Insulated Bearing	no
58.	Lubrication Type	grease
9 59.	Grease Condition	(NA) Not Applicable

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	ODE BEARING NO GREASE
67.	Cause of Failure	
68.	Comments	
69.	Service Technician	RW
Mach	ne Fit Inspection Report	
70.	Shaft Run Out	
71.	Initial Shaft Run Out	
72.	Final Shaft Run Out	
<b>7</b> 3.	DE Bearing Shaft Fit	(P) Pass



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





0.4		
81.	ODE Initial Shaft Bearing Fit Size 1	
82.	ODE Initial Shaft Bearing Fit Size 2	
83.	ODE Initial Shaft Bearing Fit Size 3	
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
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 (P) Pass



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	(P) Pass



117. Flange Condition	(P) Pass
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	
Asser	nbly and Final Test	
127.	Meggar Testing Reading	89.0340000000001 Mohm
128.	Surge Test	(P) Pass
129.	Hi-Pot	
130.	Winding Resistance 1-2	
131.	Winding Resistance 2-3	
132.	Winding Resistance 1-3	
122	Test Run Voltage Phase A	229 Volts





134. Test Run Amps A1.3 Amps135. Test Run Voltage Phase B227 Volts



136. Test Run Amps B	1.1 Amps
137. Test Run Voltage Phase C	228 Volts



138. Test Run Amps C	1.4 Amps
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	(P) Pass
159. Service Technician	RW
P. W	

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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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- 11. **GOVERNING LAW AND JURISDICTION.** Any controversy arising out of any quotation, the purchase order, the goods sold or delivered, repair or replacement thereof, or any services provided pursuant to any quotation or any purchase order, or these Standard Terms and Conditions shall be governed by the laws of the state of Tennessee without regard to any choice of law provisions and any cause of action related in any manner thereto shall be brought only in the state or federal courts of Shelby County, Tennessee.
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