



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

AC Recondition Repair Report

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CoorsTek Inc.
3315 Boone Road
Benton, AR 72015

Priorities Found: ● 2 - High ● 13 - Good

General

1. Job Number	98027
2. Report Date	03/30/2021
3. Customer	COORS TEK

Name Plate Information



4. Manufacturer	TEK SPECIALTIES	P5
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5. Model	VIGM-5-3450-3-220-60
6. Serial Number	4 2210
7. Horsepower	5
8. KW	
9. Volts	220
10. Amps	
11. RPM	3450
12. Frame	
13. Enclosure	TEFC
14. Cycles	60
15. Phase	3

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16.	Service Factor	
17.	Motor Mount Position	
Initial Inspection		
18.	Number of Leads	3
19.	Lead Length	6 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	0.001
27.	Does Shaft Turn Freely	no
28.	Does Shaft Have Visible Damage	no
29.	Bearing Rtd's	
30.	Bearing Rtd's Condition	
31.	Contamination	
32.	Frame Condition	(P) Pass
33.	Fan Condition	(P) Pass
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	(F) Fail
42.	Stator Condition	pass
43.	Failure Location	windings shorted by impact with bearing fragments
Initial Rotor Inspection		
44.	Rotor Type	squirrel cage
		
45.	Air Gap <10% Variation	
46.	Number of Rotor Bars	
47.	Number of Broken Rotor Bars	

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48. Growler Test	(P) Pass	
49. Rotor Condition	(P) Pass	P50



Mechanical Inspection



50. Bearing Manufacture

P1




51. Bearing DE Size	6206	
52. Bearing DE Type	regular ball bearing	
53. DE Bearing Qty.	1	
54. Bearing ODE Size	6305	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
60.	Bearing Retainers	(NA) Not Applicable
61.	Shaft Grounding Device	(NA) Not Applicable
62.	DE Seal	
63.	DE Seal Type/Size	
64.	ODE Seal	
65.	ODE Seal Type/Size	
Root Cause of Failure		
66.	Component Failure	D.E. bearing suffered catastrophic cage failure
67.	Cause of Failure	<i>Insufficient amount of grease in D.E. housing contributed to bearing cage failure. This caused pieces of it to impact with the stator windings.</i>
68.	Comments	
69.	Service Technician	Terrence Holland
		
Machine Fit Inspection Report		
70.	Shaft Run Out	(P) Pass
71.	Initial Shaft Run Out	0.001 "
72.	Final Shaft Run Out	
73.	DE Bearing Shaft Fit	(P) Pass
74.	DE Initial Shaft Bearing Fit Size 1	1.1812 "
75.	DE Initial Shaft Bearing Fit Size 2	1.1812 "
76.	DE Initial Shaft Bearing Fit Size 3	1.1812 "
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	0.9847 "
82.	ODE Initial Shaft Bearing Fit Size 2	0.9847 "
83.	ODE Initial Shaft Bearing Fit Size 3	0.9847 "
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	2.441 "
95.	DE Initial Endbell Fit Size 2	2.4409 "
96.	DE Initial Endbell Fit Size 3	2.4411 "

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97.	DE Final Endbell Fit Size 1	
98.	DE Final 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 Size	
103.	Final Endbell Air Seal Fit Size	
104.	ODE Endbell Fit	(P) Pass
105.	ODE Initial Endbell Fit Size 1	2.441 "
106.	ODE Initial Endbell Fit Size 2	2.4411 "
107.	ODE Initial Endbell Fit Size 3	2.4412 "
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 Final Endbell Seal Fit Size	
115.	Foot Flatness	(NA) Not Applicable
116.	Foot Condition	(NA) Not Applicable
117.	Flange Condition	(P) Pass
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	

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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