

AC Recondition Repair Report

FolderID: 98027
 FormID: 10328011

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



Hi-Speed Industrial Service disclaims all warranties, both express and implied, relating to the information, reports, opinions and analysis disclosed to the Customer by Hi-Speed. Hi-Speed shall not be liable for any errors or omissions, or any losses, injury or damages arising from the use of such information, reports, opinions and analysis by the Customer.



Hi-Speed Industrial Service disclaims all warranties, both express and implied, relating to the information, reports, opinions and analysis disclosed to the Customer by Hi-Speed. Hi-Speed shall not be liable for any errors or omissions, or any losses, injury or damages arising from the use of such information, reports, opinions and analysis by the Customer.



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

Hi-Speed Industrial Service disclaims all warranties, both express and implied, relating to the information, reports, opinions and analysis disclosed to the Customer by Hi-Speed. Hi-Speed shall not be liable for any errors or omissions, or any losses, injury or damages arising from the use of such information, reports, opinions and analysis by the Customer.

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	P4
			
45.	Air Gap <10% Variation		
46.	Number of Rotor Bars		
47.	Number of Broken Rotor Bars		

Hi-Speed Industrial Service disclaims all warranties, both express and implied, relating to the information, reports, opinions and analysis disclosed to the Customer by Hi-Speed. Hi-Speed shall not be liable for any errors or omissions, or any losses, injury or damages arising from the use of such information, reports, opinions and analysis by the Customer.

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

Hi-Speed Industrial Service disclaims all warranties, both express and implied, relating to the information, reports, opinions and analysis disclosed to the Customer by Hi-Speed. Hi-Speed shall not be liable for any errors or omissions, or any losses, injury or damages arising from the use of such information, reports, opinions and analysis by the Customer.

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 "

Hi-Speed Industrial Service disclaims all warranties, both express and implied, relating to the information, reports, opinions and analysis disclosed to the Customer by Hi-Speed. Hi-Speed shall not be liable for any errors or omissions, or any losses, injury or damages arising from the use of such information, reports, opinions and analysis by the Customer.

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. | Megger 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 |

Hi-Speed Industrial Service disclaims all warranties, both express and implied, relating to the information, reports, opinions and analysis disclosed to the Customer by Hi-Speed. Hi-Speed shall not be liable for any errors or omissions, or any losses, injury or damages arising from the use of such information, reports, opinions and analysis by the Customer.

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