



## AC Recondition As Found

CoorsTek Inc.  
3315 Boone Road  
Benton, AR 72015

FolderID: 100532  
FormID: 15025973

### AC Recondition - Rev. 2

Location: LR MOTORSHOP

Serial Number: NO NP

Description: SMALL BLOWER FAN

Hi-Speed Job Number: 100532

Manufacturer: Other

Phase: Three

Hz: 60 (Hz)

Enclosure: TENV

# of Leads: 3

J-box Included: None

Bearing RTDs: No

Stator RTDs: No

Repair Stage: Final

Heaters: No

Winding Type : Random Wound

Bearing Type: Rolling Element

Priorities Found: ● 4 - High

● 4 - Good

### Overall Condition




1. Report Date
2. Nameplate Picture

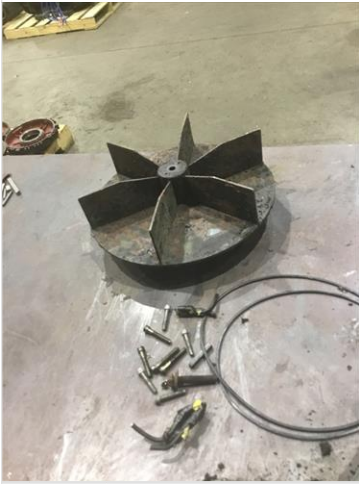
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3.	Photos of all six sides of the machine.	
4.	Describe the Overall Condition of the Equipment as Received	
5.	Distance from the end of the shaft to the Coupling/Sheave	
<b>Initial Mechanical/Electrical</b>		
6.	Does Shaft Turn Freely?	<b>(Yes) Yes</b>
7.	Does Shaft Have Visible Damage?	<b>(No) No</b>
8.	Assembled Shaft Runout	
9.	Assembled Shaft End Play	
10.	Air Gap Variation <10%	
11.	Lead Condition	<b>(F) Fail</b>
12.	Lead Length	<b>10 Inches</b>
13.	Frame Condition	<b>pass</b>



15. Broken or Missing Components

**Initial Electrical Inspection**



16. Insulation Resistance/Megger

0 Megohms

17. Winding Resistance

1-2

1-3

2-3

18. Perform Surge Test

(F) Fail

19. Stator Condition

rewind

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20. Number of Stator Slots

**Mechanical Inspection**







22. Drive End Bearing Qty.	1
23. Drive End Bearing Type	(Ball) Ball Bearing
24. Drive End Lubrication Type	(Grease) Grease Lubricated
25. Drive End Bearing Insulation or Grounding Device?	no
26. Drive End Wavy Washer/Snap-Ring Other Retention Device?	no
27. Drive End Bearing Condition	carriage came apart
28. Opposite Drive End Bearing Number-	6205 2RS
29. Opposite Drive End Bearing Qty.	1
30. Opposite Drive End Bearing Type	(Ball) Ball Bearing
31. Opposite Drive End Lubrication Type	(Grease) Grease Lubricated
32. Opposite Drive End Bearing Insulation or Grounding Device?	no
33. Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?	wavy washer

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34. Opposite Drive End Bearing Condition	okay
35. Drive End Seal	
36. Opposite Drive End Seal	

**Rotor Inspection**

37. Rotor Type/Material	(Squirrel Aluminum) Squirrel Cage Aluminum Die Cast
38. Growler Test	(Pass) Pass
39. Number of Rotor Bars	



41. List the Parts needed for the Repair Below

1-6206 2RS 1-6205 2RS

42. Signature of Technician that Disassembled Motor

RW

**Mechanical Fits- Rotor**

43. Shaft Runout

44. Rotor Runout

Drive End Bearing Fit

Rotor Body

Opposite Drive End Bearing

45. Coupling Fit Closest to Bearing Housing

0 Degrees

90 Degrees

120 Degrees

46. Coupling Fit Closest to the end of the Shaft

0 Degrees

60 Degrees

120 Degrees

47. Drive End Bearing Shaft Fit

0 Degrees

60 Degrees

120 Degrees

1.1807

1.1802

1.1804

48. Drive End Bearing Shaft Fit Condition

(F) Fail

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49. Opposite Drive End Bearing Shaft Fit

0 Degrees

60 Degrees

120 Degrees

0.9846

0.9846

0.9846

50. Opposite Drive End Bearing Shaft Fit Condition

(P) Pass

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51. Shaft Air Seal Fits

Drive End Air Seal

Opposite Drive End Air Seal

### Mechanical Fits- Bearing Housings



52. Drive End - Endbell Bearing Fit

0 Degrees

60 Degrees

120 Degrees

2.4416

2.4416

2.4416



54. Opposite Drive End - Endbell Bearing Fit

0 Degrees

60 Degrees

120 Degrees

2.0493

2.0493

2.0493

55. Opposite Drive End - Endbell Bearing Fit Condition

(F) Fail



Resleeve

56. Bearing Cap Condition

Drive End Bearing Cap

Opposite Drive End Bearing Cap

na

na

57. End Bell Air Seal Fits

Drive End Air Seal

Opposite Drive End Air Seal

58. List Machine Work Needed Below

*De shaft bearing fit bad also ode end bell housing fit bad*

59. Technician

RW

### Dynamic Balance Report

60. Rotor Weight and Balance Grade

Rotor Weight

Balance Grade

61. Initial Balance Readings

Drive End

Opposite Drive End

62. Final Balance Readings

Drive End

Opposite Drive End

63. Technician


### Rewind




64. Core Test Results - Watts loss per Pound

Pre-Burnout

Post Burnout



65.	Core Hot Spot Test		
	Pre-Burnout	Post-Burnout	
66.	Post Rewind Electrical Test- Insulation Resistance		
67.	Post Rewind Polarization Index		
68.	Post Rewind Winding Resistance		
	1-2	1-3	2-3
69.	Post Rewind Surge Test		
70.	Post Rewind Hi-Pot		
71.	Technician		
Root Cause of Failure			
72.	Failure locations		
	De bearing failed causes the rotor to drag iron and burn up winding		
73.	Root cause of failure		
Mechanical Fits- Rotor - Post Repair			
74.	Shaft Runout Post Repair		
75.	Rotor Runout Post Repair		
	Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing
76.	Coupling Fit Closest to Bearing Housing Post Repair		
	0 Degrees	90 Degrees	120 Degrees
77.	Coupling Fit Closest to the end of the Shaft Post Repair		
	0 Degrees	60 Degrees	120 Degrees
78.	Drive End Bearing Shaft Fit Post Repair		
	0 Degrees	60 Degrees	120 Degrees
	1.1815	1.1814	1.1814
			
79.	Opposite Drive End Bearing Shaft Fit Post Repair		
	0 Degrees	60 Degrees	120 Degrees
80.	Shaft Air Seal Fits Post Repair		
	Drive End Air Seal	Opposite Drive End Air Seal	

81. Shaft Repair Sign-off			
<b>Mechanical Fits- Bearing Housings - Post Repair</b>			
82. Drive End - Endbell Bearing Fit Post Repair			
0 Degrees	60 Degrees	120 Degrees	
83. Opposite Drive End - Endbell Bearing Fit Post Repair <span style="float: right;">P100</span>			
0 Degrees	60 Degrees	120 Degrees	
<b>2.0475</b>	<b>2.0475</b>	<b>2.0474</b>	
			
84. Bearing Cap Condition Post Repair			
Drive End Bearing Cap	Opposite Drive End Bearing Cap		
85. End Bell Air Seal Fits Post Repair			
Drive End Air Seal	Opposite Drive End Air Seal		
86. End Bell Repair Sign-off			
<b>Assembly</b>			
87. Photograph All Major Components prior to assembly			
88. Final Insulation Resistance Test			
89. Assembled Shaft Endplay			
90. Assembled Shaft Runout			
91. Test Run Voltage			
Volts	Volts	Volts	
92. Test Run Amperage			
Amps	Amps	Amps	
93. Drive End Vibration Readings - Inches Per Second			
Horizontal	Vertical	Axial	
94. Opposite Drive End Vibration Readings - Inches Per Second			
Horizontal	Vertical	Axial	
95. Ambient Temperature - Fahrenheit			

96. Drive End Bearing Temps - Fahrenheit

5 Minutes

10 Minutes

15 Minutes

97. Opposite Drive End Bearing Temps - Fahrenheit

5 Minutes

10 Minutes

15 Minutes

98. Final Test Run Sign-off

99. Document Final Condition with Pictures after paint

100. Final Pics and QC Review

Terrence Holland

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