



**KEEPING YOUR FACILITY UP TO SPEED**  
— EVERY DAY SINCE 1946 —

Motor Shop Repairs

**Job Number 99563**

Prepared for Reynolds Metals company

1333 highway 270  
Malvern AR 72104

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DC Recondition Repair Report

1.0

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

## DC Recondition Repair Report

FolderID: 99563  
FormID: 13176487

Reynolds Metals company  
1333 highway 270  
Malvern, AR 72104

Priorities Found: ● 3 - High ● 15 - Good

### General

1. Job Number	99563
2. Report Date	3/25/2022
3. Customer	Reynolds Consumer Products

### Name Plate Information

4. Manufacturer	GE
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5. Model	5CD203PA007A317
6. Serial Number	
7. Horsepower	100
8. KW	
9. Armature Volts	500
10. Armature Amps	161
11. Field Voltage	240
12. Field Amps	3.8
13. RPM	1750
14. Frame	CD407AT
15. Enclosure	
16. Service Factor	
17. Motor Mount Position	
<b>Initial Inspection</b>	
18. Lead Length	
19. Lead Size	
● 20. Lead Condition	(P) Pass



21. Lead Markings	
22. Lug Size, Condition, and Type	
23. Winding RTD's	
24. Winding Rtd's Condition	
25. Shaft Run Out	

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26. Does Shaft Turn Freely	no
27. Does Shaft Have Visible Damage	no
28. Bearing Rtd's	
29. Bearing Rtd's Condition	
30. Contamination	
31. Frame Condition	(P) Pass
32. Fan Condition	
33. Brush Condition	(F) Fail



34. Quantity of brushes	8
35. Brush Holder Assembly Condition	(NA) Not Applicable

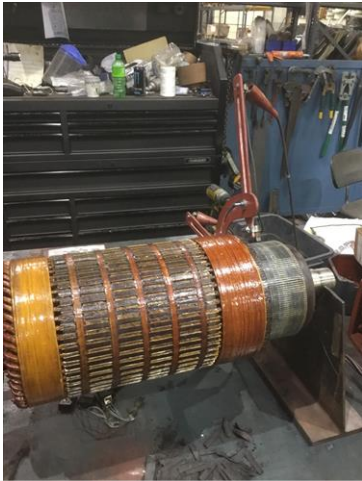


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Replace two springs

36. Broken or missing components	
<b>Initial Electric Test</b>	
37. Armature Resistance to Ground	30 Mohm
38. Field Resistance to Ground	0 Mohm
39. Armature Hi-Pot	Ua



40. Field Hi-Pot	
41. Armature Bar to Bar Test	
42. DC field frame Drop Test	(F) Fail
43. DC Field Frame Polarity Check	
44. Field Frame Condition	wash and bake.rewind fields

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45. Field Frame Failure Location



**Initial Armature Inspection**

46. Air Gap <10% Variation

47. Number of Commutator Bars

● 48. Growler Test

**(P) Pass**

49. Commutator Condition

☞ *Turn and under cut*



50. Armature Condition

**wash and bake**

51. Armature Failure Location

**Mechanical Inspection**

52. Bearing Manufacture

**SKF**



53. Bearing DE Size

6214



Fluting in de

54. Bearing DE Type

ball bearing

55. Bearing ODE Size

6213



Fluting in ode

56. Bearing ODE Type

ball bearing

57. Insulated Bearing

no

58. Lubrication Type

grease

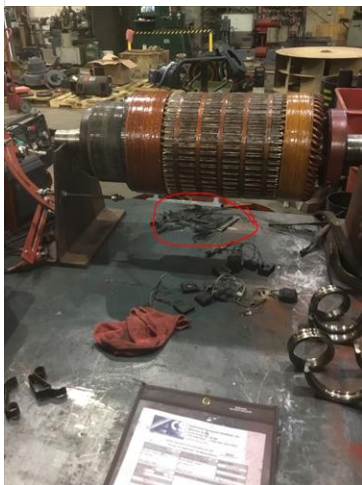


59. Grease Condition

(F) Fail

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Burnt		
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		
<b>Root Cause of Failure</b>		
66. Component Failure		ac cooling fan
67. Cause of Failure	Found fan blades in de end bell also stuck between field and inter pole winding	



Found this in de end bell

68. Comments	
69. Service Technician	RW
	
<b>Machine Fit Inspection Report</b>	
70. Shaft Run Out	(P) Pass
71. Initial Shaft Run Out	
72. Final Shaft Run Out	

73. DE Bearing Shaft Fit

(P) Pass



74. DE Initial Shaft Bearing Fit 1	2.756 "
75. DE Finial Shaft Bearing Fit 1	
76. DE Initial Shaft Bearing Fit 2	
77. DE Finial Shaft Bearing Fit 2	
78. DE Initial Shaft Bearing Fit 3	
79. DE Finial Shaft Bearing Fit 3	

80. ODE Bearing Shaft Fit

(P) Pass



81. ODE Initial Shaft Bearing Fit 1	2.5592 "
82. ODE Finial Shaft Bearing Fit 1	
83. ODE Initial Shaft Bearing Fit 2	
84. ODE Finial Shaft Bearing Fit 2	
85. ODE Initial Shaft Bearing Fit 3	
86. ODE Finial Shaft Bearing Fit 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

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94. DE Initial Endbell Fit Size 1	4.9223 "
95. DE Final Endbell Fit Size 1	
96. DE Initial Endbell Fit Size 2	
97. DE Finial Endbell Fit Size 2	
98. DE Initial Endbell Fit Size 3	
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. Finial Endbell Air Seal Fit Size	
104. ODE Endbell Fit	(P) Pass





105. ODE Endbell Fit Insulated

(NA) Not Applicable



106. ODE Endbell Air Seal Fit

107. ODE Initial Endbell Seal Fit Size

108. ODE Final Endbell Seal Fit Size

● 109. Foot Flatness (P) Pass

● 110. Foot Condition (P) Pass

● 111. Flange Condition (NA) Not Applicable

● 112. Turn and Under Cut Armature (NA) Not Applicable

Yes

113. Service Technician

RW

RW

### Balancing Report

114. Balance Type

115. Balance Operating Speed

116. Start Left End

117. Start Right End

118. Balancing Specification

119. Finish Left End

120. Finish Right End

121. Service Technician

### Assembly and Final Test

122. Armature Meggar Testing Reading

3,951 Mohm



123. Armature Hi-Pot

Ua



124. Field Frame Meggar Testing Reading

38,579 Mohm



125. Field Frame Hi-Pot

126. Test Run Field Voltage

239.5 Volts



127. Test Run Field Amps	5.5 Amps
128. Test Run Armature Voltage	596 Volts



129. Test Run Armature Amps	2.8 Amps
130. Brushes seated	(P) Pass
131. DE Horizontal Vibration Reading	
132. DE Vertical Vibration Reading	
133. DE Axial Vibration Reading	
134. ODE Horizontal Vibration Reading	
135. ODE Vertical Vibration Reading	
136. ODE Axial Vibration Reading	
137. Ambient Temp at start of Test Run	
138. Temp at 5 minutes	
139. Temp at 10 minutes	
140. Temp at 15 minutes	
141. Temp at 20 minutes	
142. Temp at 25 minutes	
143. Temp at 30 minutes	
144. Temp at 35 minutes	
145. Temp at 40 minutes	
146. Temp at 45 minutes	
147. Temp at 50 minutes	
148. Temp at 55 minutes	

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149. Temp at 60 minutes

● 150. Motor Paint

(P) Pass



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151. Service Technician

RW

RW



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5. **DELIVERY OF GOODS AND/OR SERVICES.** Unless otherwise identified in the quotation, all shipments are F.O.B. Hi-Speed's warehouse and the title to and all risk of loss with respect to any goods shipped shall pass to Buyer when such goods are delivered to the carrier at Hi-Speed's warehouse. Hi-Speed will use its best efforts to affect delivery by the date or dates specified in the quotation. However, Hi-Speed shall not be liable for delay in or failure to make shipment, or to perform services, by any identified date for any reason whatsoever, including but not limited to, causes beyond its reasonable control, such as strikes, fires, floods, epidemics, quarantines, restrictions, severe weather, embargos, acts of God, or public enemy, war, riot, delays in transportation or the inability to obtain necessary labor, materials or manufacturing facilities.
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