



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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DC Recondition Repair Report

FolderID: 99563
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Reynolds Metals company
1333 highway 270
Malvern, AR 72104

Priorities Found: ● 3 - High ● 13 - 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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1.0





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	
Initial Inspection	
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	
Initial Electric Test	
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		
Root Cause of Failure		
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
	
Machine Fit Inspection Report	
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 Final 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. Final 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

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

123. Armature Hi-Pot

124. Field Frame Meggar Testing Reading

125. Field Frame Hi-Pot

126. Test Run Field Voltage

127. Test Run Field Amps

128. Test Run Armature Voltage

129. Test Run Armature Amps

130. Brushes seated

131. DE Horizontal Vibration Reading

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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
149. Temp at 60 minutes
150. Motor Paint
151. Service Technician



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1. **APPLICABILITY.** The sale of any and all goods and/or services by Mock, Inc. d/b/a Hi-Speed Industrial Service ("Hi-Speed") shall be specifically conditioned upon and subject to the following terms and conditions which are incorporated by reference into any contracts and purchase orders with Hi-Speed, and which shall form and become a part of any agreement related thereto. Buyer's acceptance of any offer or quotation made by Hi-Speed for sale of any goods or services is expressly made subject to the terms and conditions set forth herein and to be so effective, Buyer need not sign or approve these Terms and Conditions to be bound hereunder provided a copy of same is provided to Buyer through any means. None of the terms and conditions contained herein may be added to, expanded, changed, modified, superseded or otherwise altered except as revised in writing and duly executed by Hi-Speed, and all orders received by Hi-Speed shall be governed only by the terms and conditions contained herein, notwithstanding any terms, conditions or provisions of any purchase order, release order, authorization or any other form issued by the Buyer. Hi-Speed hereby objects to any additional, modified, changed, deleted, altered or other terms and conditions not contained herein and notifies Buyer that any such terms or provisions are expressly rejected by Hi-Speed.
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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.
6. **DELIVERY SITE AND TIME FOR PERFORMANCE.** Hi-Speed and Buyer agree that time is of the essence for the purchase order and that Buyer shall fully cooperate with Hi-Speed in order to allow Hi-Speed full access to prosecute its work diligently and in an orderly manner. Buyer shall assist Hi-Speed in every way possible to avoid delaying, disrupting or interfering with the progress of Hi-Speed's work at the project site. In the event Hi-Speed's work is delayed, hindered, suspended, disrupted, re-sequenced or interfered with or rendered less efficient or more costly or adversely affected in any way as a result of acts or omissions of Buyer or other contractors or employees of Buyer or by any other reason beyond Hi-Speed's control and without the fault of Hi-Speed, then, in such event, Buyer shall be liable to Hi-Speed for any damages, additional costs, expenses, labor, materials, man hours, acceleration costs, overtime, additional jobsite overhead, extended home office overhead, and any and all other direct and indirect expenses of whatsoever nature or kind, caused in whole or in part, as a result of any of the above-referenced occurrences. Hi-Speed's project records will be the basis for computing the additional costs and damages of Hi-Speed's labor, materials, expenses and overhead related to such changes. BUYER WARRANTS THAT THE SITE FOR DELIVERY OR INSTALLATION OF ANY GOODS AND/OR FOR THE PERFORMANCE OF ANY SERVICES SHALL BE READY AND ADEQUATE FOR HI-SPEED'S DELIVERY OF GOODS AND/OR PERFORMANCE OF SERVICES AND THAT HI-SPEED SHALL HAVE FULL ACCESS THERETO, FREE OF ALL OBSTRUCTIONS. BUYER SHALL ASSUME ALL EXTRA COSTS ASSOCIATED WITH HI-SPEED'S INABILITY TO INSTALL ANY GOODS OR PERFORM ANY SERVICES AS A RESULT OF BUYER'S FAILURE TO COMPLY WITH THIS PROVISION. HI-SPEED MAY NOT INSPECT THE SITE PRIOR TO DELIVERY AND/OR INSTALLATION OF GOODS AND/OR PERFORMANCE OF SERVICES AND MAKES NO WARRANTY AS TO THE SUFFICIENCY OF THE SITE FOR THE DELIVERY AND/OR INSTALLATION OF GOODS AND/OR THE PERFORMANCE OF SERVICES AT SUCH SITE.
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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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