

Motor Shop Repairs

Job Number 99076

Prepared for Reynolds Metals company

1333 highway 270 Malvern AR 72104

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DC Recondition Repair Report

Reynolds Metals company 1333 highway 270 Malvern, AR 72104

Priorities Found: A 15 - Good

FIIOIILIE	Filotities Found. 13- Good		
General			
1.	Job Number	99076	
2.	Report Date	12/8/2021	
3.	Customer	Reynolds Consumer Products	
Name	Plate Information		
4.	Manufacturer	GE	



Manufacturer















5.	Model	5C0203PA032A014
6.	Serial Number	J0-1-356-J0
7.	Horsepower	100
8.	KW	
9.	Armature Volts	500
10.	Armature Amps	160
11.	Field Voltage	300
12.	Field Amps	3.0
13.	RPM	1750
14.	Frame	
15.	Enclosure	TEOC
16.	Service Factor	
17.	Motor Mount Position	
Initial	Inspection	
18.	Lead Length	
19.	Lead Size	





21.	Lead Markings	A1 A2 S1 S2 F 1 F2
22.	Lug Size, Condition, and Type	
23.	Winding RTD's	
24.	Winding Rtd's Condition	
25.	Shaft Run Out	
26.	Does Shaft Turn Freely	no
27.	Does Shaft Have Visible Damage	
28.	Bearing Rtd's	(NA) Not Applicable
2 9.	Bearing Rtd's Condition	(NA) Not Applicable
30.	Contamination	
31.	Frame Condition	(P) Pass
32.	Fan Condition	
33.	Brush Condition	(NA) Not Applicable



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



36. Broken or missing components

Initial Electric Test

- 37. Armature Resistance to Ground
- 38. Field Resistance to Ground

144.5 Mohm





F1 F4 S1 S2



A1 A2

- 39. Armature Hi-Pot
- 40. Field Hi-Pot
- 41. Armature Bar to Bar Test

42. DC field frame Drop Test

(P) Pass

43. DC Field Frame Polarity Check

44. Field Frame Condition

Wash and bake





45. Field Frame Failure Location

Initial Armature Inspection

- 46. Air Gap <10% Variation
- 47. Number of Commutator Bars
- 48. Growler Test
- 49. Commutator Condition

Turn and under cut

(NA) Not Applicable



50. Armature Condition wash and bake



51. Armature Failure Location

Mechanical Inspection

52. Bearing Manufacture SKF

53. Bearing DE Size 6214

Fluting in bearing





54. Bearing DE Type ball bearing

55. Bearing ODE Size 6213

Fluting in bearing





56.	Bearing ODE Type	ball bearing
57.	Insulated Bearing	no
58.	Lubrication Type	grease
59.	Grease Condition	(NA) Not Applicable
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	
67.	Cause of Failure	
68.	Comments	
69.	Service Technician	
Machi	ne Fit Inspection Report	
70.	Shaft Run Out	
71.	Initial Shaft Run Out	
72.	Final Shaft Run Out	
73.	DE Bearing Shaft Fit	(NA) Not Applicable
	Repair	



74. DE Initial Shaft Bearing Fit 1	2.7553 "
75. DE Finial Shaft Bearing Fit 1	п
76. DE Initial Shaft Bearing Fit 2	2.7553 "
77. DE Finial Shaft Bearing Fit 2	
78. DE Initial Shaft Bearing Fit 3	2.7553 "
79. DE Finial Shaft Bearing Fit 3	

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Repair output shaft and bearing fit



81.	ODE Initial Shaft Bearing Fit 1	2.4351 "
82.	ODE Finial Shaft Bearing Fit 1	
83.	ODE Initial Shaft Bearing Fit 2	2.4351 "
84.	ODE Finial Shaft Bearing Fit 2	
85.	ODE Initial Shaft Bearing Fit 3	2.4351 "
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	(NA) Not Applicable
•	Resleeve	



94. DE Initial Endbell Fit Size 1	4.9252 "
95. DE Final Endbell Fit Size 1	
96. DE Initial Endbell Fit Size 2	4.9252 "
97. DE Finial Endbell Fit Size 2	
98. DE Initial Endbell Fit Size 3	4.9252 "
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	(NA) Not Applicable
Resleeve bearing fit and out put hole in end bell	



105. ODE Endbell Fit Insulated	(NA) Not Applicable
106. ODE Endbell Air Seal Fit	
107. ODE Initial Endbell Seal Fit Size	
108. ODE Finial Endbell Seal Fit Size	
■ 109. Foot Flatness	(P) Pass
● 110. Foot Condition	(P) Pass
111. Flange Condition	
112. Turn and Under Cut Armature	(NA) Not Applicable
Turn and under cut	
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
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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- 4. <u>BILLING AND PAYMENT TERMS.</u> Hi-Speed shall invoice Buyer for all goods and/or services as same are rendered at the address listed on the quotation. Payments for all goods and/or services shall be due thirty (30) days from the date of the current invoice or as otherwise set forth in the quotation. Late payments are subject to a late fee of 5% of the total invoice amount. Recurring late payments may lead to a deposit requirement on future services or sale of goods. Buyer shall be liable to Hi-Speed for any and all fees and expenses incurred by Hi-Speed to collect any invoices or to enforce these Standard Terms and Conditions, including but not limited to, attorney's fees.
- 5. <u>DELIVERY OF GOODS AND/OR SERVICES.</u> 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.
- **DELIVERY SITE AND TIME FOR PERFORMANCE.** Hi-Speed and Buver 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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- 14. <u>NONWAIVER.</u> No course of dealing or failure of either party to strictly enforce any term, right, or condition of these Standard Terms and Conditions will be construed as a waiver of such term, right or condition. Any waiver by Hi-Speed will only be in writing and will waive no succeeding breach of a term, right or condition.
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