

# EVERY DAY SINCE 1946

**Motor Shop Repairs** 

## Job Number 98237

Prepared for Bryce Corporation (10053-BRC)

450 S. Benton Searcy AR 72143

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DC Recondition Repair Report



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

98237

5/19/2021

BRYCE

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#### **DC Recondition Repair Report**

Bryce Corporation (10053-BRC) 450 S. Benton Searcy, AR 72143 Performed By: Motor Shop LR 2 Date Completed: 5/20/2021

#### Priorities Found: Dec 20 - Good

#### General

- 1. Job Number
- 2. Report Date
- 3. Customer
- Name Plate Information
  - 4. Manufacturer

















5.	Model	GFQU 100 22
6.	Serial Number	
7.	Horsepower	10.7
8.	KW	
9.	Armature Volts	440
10.	Armature Amps	27
11.	Field Voltage	360
12.	Field Amps	1.4
13.	RPM	3200
14.	Frame	
15.	Enclosure	DP
16.	Service Factor	
17.	Motor Mount Position	
Initial	Inspection	
18.	Lead Length	
19.	Lead Size	
20.	Lead Condition	(P) Pass
21.	Lead Markings	B1B B2B F1 F2
22.	Lug Size, Condition, and Type	
23.	Winding RTD's	(NA) Not Applicable
24.	Winding Rtd's Condition	
25.	Shaft Run Out	

26. Does Shaft Turn Freely	yes
27. Does Shaft Have Visible Damage	no
28. Bearing Rtd's	(NA) Not Applicable
29. Bearing Rtd's Condition	(NA) Not Applicable
30. Contamination	
31. Frame Condition	(P) Pass
32. Fan Condition	(NA) Not Applicable
33. Brush Condition	(NA) Not Applicable



34.	Quantity of brushes	4
35.	Brush Holder Assembly Condition	
36.	Broken or missing components	
Initial	Electric Test	
37.	Armature Resistance to Ground	651 Mohm
38.	Field Resistance to Ground	83,651 Mohm
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	good





45. Field Frame Failure Location

#### **Initial Armature Inspection**

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Printed on 5/20/2021

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

(P) Pass





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	h 2
	1

50. Armature Condition	Good
51. Armature Failure Location	
Mechanical Inspection	
52. Bearing Manufacture	FAG



54. Bearing DE Type	Ball bearing
55. Bearing ODE Size	6206



56	6. Bearing ODE Type	Ball Bearing
57	7. Insulated Bearing	no
58	3. Lubrication Type	Grease
• 59	<ol> <li>Grease Condition</li> </ol>	(P) Pass
60	). Bearing Retainers	(Y) Yes
61	I. Shaft Grounding Device	(Y) Yes



62. DE Seal

(NA) Not Applicable

1.5

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 

(P) Pass



74. DE Initial Shaft Bearing Fit 1	1.1813 "
75. DE Finial Shaft Bearing Fit 1	
76. DE Initial Shaft Bearing Fit 2	1.1813 "
77. DE Finial Shaft Bearing Fit 2	
78. DE Initial Shaft Bearing Fit 3	1.1813 "
79. DE Finial Shaft Bearing Fit 3	
80. ODE Bearing Shaft Fit	(P) Pass



81. ODE Initial Shaft Bearing Fit 1

82. ODE Finial Shaft Bearing Fit 1

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1.1812 "



83. ODE Initial Shaft Bearing Fit 2	1.1812 "
84. ODE Finial Shaft Bearing Fit 2	
85. ODE Initial Shaft Bearing Fit 3	1.1812 "
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
94. DE Initial Endbell Fit Size 1	2.8353 "
95. DE Final Endbell Fit Size 1	
96. DE Initial Endbell Fit Size 2	2.8353 "
97. DE Finial Endbell Fit Size 2	
98. DE Initial Endbell Fit Size 3	2.8353 "
99. DE Final Endbell Fit Size 3	
100. DE Endbell Fit Insulated	
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	2.4416 "
108. ODE Finial Endbell Seal Fit Size	
109. Foot Flatness	(P) Pass
110. Foot Condition	(P) Pass
111. Flange Condition	(P) Pass
112. Turn and Under Cut Armature	(P) Pass
Tach needs Turn and under Cut	
113. Service Technician	RW
$R \smile$	
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

361 Volts

1.2 Amps 457.4 Volts



127.	Test Run Field Amps
128.	Test Run Armature Voltage



129. T	est Run Armature Amps	1.2 Amps
🔵 130. B	rushes seated	(P) Pass
131. D	E Horizontal Vibration Reading	
132. D	E Vertical Vibration Reading	
133. D	E Axial Vibration Reading	
134. O	DE Horizontal Vibration Reading	
135. O	DE Vertical Vibration Reading	
136. O	DE Axial Vibration Reading	
137. A	mbient Temp at start of Test Run	
138. T	emp at 5 minutes	
139. T	emp at 10 minutes	
140. T	emp at 15 minutes	
141. T	emp at 20 minutes	
142. T	emp at 25 minutes	
143. T	emp at 30 minutes	
144. T	emp at 35 minutes	

150. Motor Paint	(P) Pass
149. Temp at 60 minutes	
148. Temp at 55 minutes	
147. Temp at 50 minutes	
146. Temp at 45 minutes	
145. Temp at 40 minutes	



151. Service Technician

(P) Pass

RW



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- 2. PRICE. All quoted prices shall remain firm and binding for a period of thirty (30) days from the date of quotation or for the period specifically stated in the quotation. The price for any and all goods and/or services ordered or approved by Buyer after thirty (30) days from the date of any quotation are subject to any increase in price that may occur after the expiration of thirty (30) days from the issuance of the quotation and the date the Buyer releases any shipment.
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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. 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 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.
- 7. INSPECTION/ACCEPTANCE. All goods and services ordered pursuant to any quotation shall be subject to inspection by Buyer after delivery or performance to determine conformity with the quotation and/or purchase order and Hi-Speed's advertised or published specifications. Buyer shall have a period of thirty (30) days from shipment of goods at the delivery destination specified in the quotation within which to inspect the goods for conformity with the quotation, order and/or Hi-Speed's advertised and published specifications and to provide Hi-Speed with written notice of any discrepancy or rejection. Buyer shall have a period of thirty (30) days following completion of any services within which to inspect the services for conformity with the quotation, purchase order and/or Hi-Speed's advertised and published specifications and to provide Hi-Speed with written notice of any discrepancy or rejection. If the goods delivered or services performed do not so conform, upon delivery of notice to Hi-Speed of any discrepancy, nonconformance or rejection, Hi-Speed shall have the right to reject such goods or services. After the cure period, goods that have been delivered and rejected, in whole or in part, shall be returned to Hi-Speed shall, at its sole cost, re-perform the non-conforming services. Inspection or failure to inspect on any occasion shall not affect Buyer's rights under the warranty provisions herein.
- 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. <u>GOVERNING LAW AND JURISDICTION.</u> 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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