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— EVERY DAY SINCE 1946 —

Motor Shop Repairs

**Job Number 98398**

Prepared for Bryce Corporation (10053-BRC)

450 S. Benton  
Searcy AR 72143

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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: 98398  
FormID: 11026026

**Bryce Corporation (10053-BRC)**  
450 S. Benton  
Searcy, AR 72143

Priorities Found: ● 2 - High ● 9 - Good

### General

1. Job Number	98398
2. Report Date	7/6/2021
3. Customer	BRYCE

### Name Plate Information

4. Manufacturer	LENZE
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5. Model	TYPE: GFOU-100-22
6. Serial Number	207607K
7. Horsepower	
8. KW	7.5
9. Armature Volts	480
10. Armature Amps	18.5
11. Field Voltage	360
12. Field Amps	1.1
13. RPM	2500
14. Frame	
15. Enclosure	
16. Service Factor	
17. Motor Mount Position	
Initial Inspection	

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18. Lead Length

6 Inches



19. Lead Size

● 20. Lead Condition

(P) Pass



21. Lead Markings

A1-A2. F1-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

27. Does Shaft Have Visible Damage

28. Bearing Rtd's

29. Bearing Rtd's Condition

30. Contamination

● 31. Frame Condition

(P) Pass

● 32. Fan Condition

(NA) Not Applicable

● 33. Brush Condition

(P) Pass





34. Quantity of brushes

4



35. Brush Holder Assembly Condition

36. Broken or missing components

#### Initial Electric Test

37. Armature Resistance to Ground

15,044 Mohm



38. Field Resistance to Ground

288.8 Mohm

39. Armature Hi-Pot

Ua

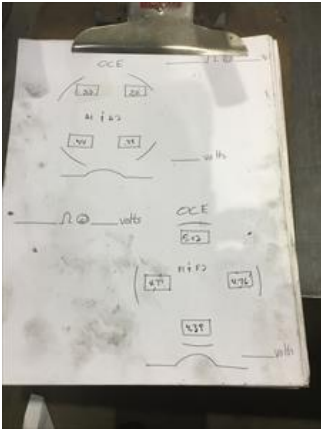
40. Field Hi-Pot

41. Armature Bar to Bar Test

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42. DC field frame Drop Test

(F) Fail



43. DC Field Frame Polarity Check	
44. Field Frame Condition	pass
45. Field Frame Failure Location	
<b>Initial Armature Inspection</b>	
46. Air Gap <10% Variation	
47. Number of Commutator Bars	100
48. Growler Test	(P) Pass
49. Commutator Condition	
50. Armature Condition	pas
51. Armature Failure Location	
<b>Mechanical Inspection</b>	
52. Bearing Manufacture	Koyo
53. Bearing DE Size	6306 Z



54. Bearing DE Type	regular ball bearing
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55. Bearing ODE Size

6206 Z



56. Bearing ODE Type

regular ball bearing

57. Insulated Bearing

no

58. Lubrication Type

grease

59. Grease Condition

(F) Fail

Dirty

60. Bearing Retainers

(Y) Yes



61. Shaft Grounding Device



(Y) Yes

1.3780 shaft size.



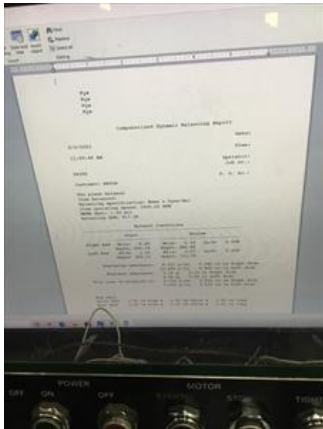
62. DE Seal

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63. DE Seal Type/Size	
64. ODE Seal	
65. ODE Seal Type/Size	
<b>Root Cause of Failure</b>	
66. Component Failure	fields
67. Cause of Failure	
68. Comments	
69. Service Technician	Terrence. Holland
 	
<b>Machine Fit Inspection Report</b>	
70. Shaft Run Out	
71. Initial Shaft Run Out	
72. Final Shaft Run Out	
73. DE Bearing Shaft Fit	
74. DE Initial Shaft Bearing Fit 1	1.1808 "
75. DE Finial Shaft Bearing Fit 1	"
76. DE Initial Shaft Bearing Fit 2	1.1809 "
77. DE Finial Shaft Bearing Fit 2	
78. DE Initial Shaft Bearing Fit 3	1.1809 "
79. DE Finial Shaft Bearing Fit 3	
80. ODE Bearing Shaft Fit	
81. ODE Initial Shaft Bearing Fit 1	1.1808 "
82. ODE Finial Shaft Bearing Fit 1	"
83. ODE Initial Shaft Bearing Fit 2	1.1807 "
84. ODE Finial Shaft Bearing Fit 2	
85. ODE Initial Shaft Bearing Fit 3	1.1808 "
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	
94. DE Initial Endbell Fit Size 1	
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	
101. DE Endbell Air Seal Fit	
102. Initial Endbell Air Seal Fit Size	
103. Finial Endbell Air Seal Fit Size	

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104. ODE Endbell Fit
105. ODE Endbell Fit Insulated
106. ODE Endbell Air Seal Fit
107. ODE Initial Endbell Seal Fit Size
108. ODE Finial Endbell Seal Fit Size
109. Foot Flatness
110. Foot Condition
111. Flange Condition
112. Turn and Under Cut Armature
113. Service Technician
<b>Balancing Report</b>
114. Balance Type



115. Balance Operating Speed	<b>416 RPM</b>
116. Start Left End	<b>1.01 Mills</b>
117. Start Right End	<b>0.3 Mills</b>
118. Balancing Specification	
119. Finish Left End	<b>0.27 Mills</b>
120. Finish Right End	<b>0.19 Mills</b>
121. Service Technician	<b>RW</b>
	

### Assembly and Final Test

122. Armature Meggar Testing Reading
123. Armature Hi-Pot
124. Field Frame Meggar Testing Reading

125. Field Frame Hi-Pot

Ua



126. Test Run Field Voltage

359.5 Volts



127. Test Run Field Amps

1.3 Amps

128. Test Run Armature Voltage

458 Volts



129. Test Run Armature Amps

1.2 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

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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	(P) Pass



151. Service Technician	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.
3. **SCOPE OF GOODS AND/OR SERVICES.** The goods and/or services provided by Hi-Speed pursuant to any quotation shall be limited exclusively to those goods and/or services expressly identified therein. Hi-Speed does not assume any responsibility and/or liability for the failure to provide any other goods and/or services not identified in any quotation. Modifications, additions or deletions to or from the scope referenced in any quotation shall only be effective if evidenced in writing and signed by Hi-Speed. The sale of any of all goods and/or services affected by such modification, addition or deletion shall be subject to these same Standard Terms and Conditions whether or not referenced therein.
4. **BILLING AND PAYMENT TERMS.** 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 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.
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 sixty (60) days to cure the alleged discrepancy and/or nonconformance. If Hi-Speed fails to cure in this time period, Buyer 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. Buyer shall notify Hi-Speed and arrange for the return of the goods as required. Should such non-conforming services be rejected 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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10. **SEVERABILITY.** The partial or complete invalidity of any provision of these Standard Terms and Conditions shall not affect the enforceability of the remainder of these Standard Terms and Conditions. If any provision is found to be invalid or unenforceable, that portion shall be modified to make it enforceable or shall be stricken and the remainder of these Standard Terms and Conditions shall enforced.
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.
12. **ABANDONED EQUIPMENT.** Hi-Speed requires that Buyer promptly pick up or provide shipment instructions for Buyer equipment or other Buyer property in Hi-Speed's possession. If equipment or other Buyer property is left with Hi-Speed and not picked up within six (6) months after Hi-Speed's final action related to the applicable property (e.g. evaluation, teardown, estimate, completion of services), Hi-Speed will consider such property abandoned and may dispose of it in accordance with applicable law. Buyer agrees to hold Hi-Speed harmless for any damage or claim for such abandoned property and acknowledges that Hi-Speed may discard or recycle it at Hi-Speed's sole and absolute discretion. Specifically, Hi-Speed may sell Buyer's abandoned property at a private or public sale and retain the proceeds to offset Hi-Speed's storage, inspection and servicing costs. For the avoidance of doubt, Hi-Speed reserves its statutory and other lawful liens for unpaid charges related to abandoned property.
13. **FORCE MAJEURE.** Neither party shall be responsible for any delay or failure in performance of any party of the quotation, purchase order or these Standard Terms and Conditions to the extent that such delays or failures are caused by fire, flood, earthquake, explosion, war, embargo, government requirement, civil or military authority, acts of God, or any other circumstances beyond its reasonable control and not involving any fault or negligence on the party affected ("Condition"). If any such Condition occurs, the party delayed or unable to perform shall promptly give written notice to the other party and, if such Condition remains at the end of thirty (30) days, the party affected by the other party's delay and inability to perform may elect to (i) terminate such order or part thereof, or (ii) suspend the order for the duration of the Condition, if the Buyer is the suspending party, buy elsewhere comparable material to be sold under the order and apply to any commitment the purchase price of such purchase, and resume performance of the order once the Condition ceases, with an option in the affected party to extend the period of this order up to the length of the time the Condition endures.
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15. **ASSIGNMENT.** The rights and obligations of the parties shall neither be assigned nor delegated without the prior written consent of the other party. However, any party may assign or delegate its respective rights and obligations, in whole or in part, (i) to any subsidiary, (ii) pursuant to other financing, merger or reorganization or (iii) pursuant to any sale or transfer of substantially all of the assets of the assigning party. These Standard Terms and Conditions shall bind the heirs, successors and assigns of the parties hereto.
16. **NO INDIVIDUAL LIABILITY.** Notwithstanding any other agreement to the contrary, the Buyer agrees that in no event will the Buyer hold and Hi-Speed owner, director, officer or employee personally liable for unintentional tortious conduct or conduct that constitutes the breach of any contract between Hi-Speed and the Buyer, even if the Hi-Speed owner, director, officer or employee is or could be construed to be a party to such contract.