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— EVERY DAY SINCE 1946 —

Motor Shop Repairs

Job Number 99555

Prepared for Bryce Corporation (10053-BRC)

450 S. Benton
Searcy AR 72143

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Hi-Speed Industrial Service
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DC Repair Report

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

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DC Repair Report Rev. 2

Location: Shop
Job Number: 99555
Serial Number: 70715CR
Status: In For Repair
Description: 15HP US 1750RPM 257AT

Hi-Speed Job Number: 99555
Manufacturer: US Motors/Nidec
Product Number : 25700450012
Serial Number: 70715CR
HP/KW: 15 (HP)
RPM: 1750
Frame: 257AT
Armature Voltage: 500 (Volts)
Armature Current: 26.5 (Amps)
Field Voltage: 300 (Volts)
Field Current : 1.05 (Amps)
J-Box Included: No
Date Received: 03/25/2022
Winding RTDS: Yes
Mounting Orientation : Horizontal

Priorities Found: ☒ 1 - High ☒ 8 - Good

Overall Condition

1. Describe the Overall Condition of the Equipment as Received

Rotor hard to turn. Motor blown.



2. Nameplate Picture







3. Distance From the End of the Shaft to the end of the Face of the Sheave/Coupling

Initial Mechanical/Electrical

- ☒ 4. Does the Shaft Turn Freely? (Y) Yes

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5. Does Shaft Have Visible Damage?	(No) No	
		
6. Assembled Shaft Runout	0.001 Inches	
7. Assembled Shaft End Play	Inches	
8. Air Gap Variation <10%		
9. Lead Condition	(P) Pass	
10. Lead Length	8 Inches	
11. Frame Condition	(P) Pass	
		
12. Fan Condition	(P) Pass	
		
13. Brush Information		
Brush Number	Quantity	Condition
	2	good
		
14. Brush Holder Condition - Verify proper gap to Commutator	pass	

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Incoming Electrical Test

15. General Condition of the Armature/Commutator

rewind armature, turn commutator



16. Armature Insulation Resistance to Ground

0 Megohms

Windings blown in slot

17. Field Circuit Insulation Resistance to Ground

200 Megohms

18. Interpole Circuit Insulation Resistance to Ground

600 Megohms

19. Field Drop Test Fields 1&2

Total AC Voltage

Field #1

Field #2

115

0.63

0.632

20. Field Drop Test Fields 3&4

Field #3

Field #4

Field #2

21. Field Drop Test Fields 5&6

Field #5

Field #6

Field #2

22. Field Drop Test Fields 7&8

Field #7

Field #8

Field #2

23. Interpole Drop Test 1&2

Total AC Voltage

Interpole #1

Interpole #2

5

1.5

1.5

24. Interpole Drop Test 3&4

Interpole #3

Interpole #4

Field #2

25. Interpole Drop Test 5&6

Interpole #5

Interpole #6

Field #2

26. Interpole Drop Test 7&8

Interpole #7

Interpole #8

Field #2

27. Armature Number of Bars - Bar to Bar Test

Number of Bars

Bar to Bar Test

104

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Mechanical Inspection

- | | | |
|--------------------------------|---------------|---------------------|
| 28. Shaft Runout Drive End | 0.001 inches | |
| 29. Shaft Runout Armature | | |
| Drive End Bearing Journal | Armature Core | ODE Bearing Journal |
| 0.001 | 0.001 | 0.001 |
| 30. Drive End Bearing Number | 6209-2rs | |
| 31. Drive End Bearing Quantity | | |



- | | |
|---|----------------------------|
| 32. Drive End Bearing Type | (Ball) Ball Bearing |
| 33. Drive End Lubrication Type | (Grease) Grease Lubricated |
| 34. Drive End Bearing Insulation or Grounding Device? | |
| 35. Drive End Wavy Washer/Snap-Ring Other Retention Device? | no |
| 36. Drive End Bearing Condition | worn |
| 37. Opposite Drive End Bearing Number | 6207-2rs |



- | | |
|--|----------------------------|
| 38. Opposite Drive End Bearing Quantity | 1 |
| 39. Opposite Drive End Bearing Type | (Ball) Ball Bearing |
| 40. Opposite Drive End Lubrication Type | (Grease) Grease Lubricated |
| 41. Opposite Drive End Bearing Insulation or Grounding Device? | |
| 42. Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device? | yes |
| 43. Opposite Drive End Bearing Condition | worn |
| 44. Signature of Technician who Performed Teardown | Trevor Hall |





A handwritten signature in black ink, appearing to read 'Trevor Hall'.

45. List Parts Needed Prior to Reassembly

6209 sealed
6207 sealed

Mechanical Fits - Armature

- | | | |
|---|------------|-------------|
| 46. Coupling Fit Closest to Bearing Housing | | |
| 0 Degrees | 60 degrees | 120 degrees |

47. Coupling Fit Closest to the End of the Shaft			
0 Degrees		60 degrees	120 degrees
48. Drive End Bearing Shaft Fit			
0 Degrees		60 Degrees	120 Degrees
1.7722		1.7722	1.7722
			
49. Drive End Bearing Shaft Fit Condition			(P) Pass
50. Opposite Drive End Bearing Shaft Fit			
0 Degrees		60 Degrees	120 Degrees
1.3784		1.3783	1.3783
51. Opposite Drive End Bearing Shaft Fit Condition			(P) Pass
			
52. Shaft Air Seal Fits			
Drive End Air Seal		Opposite Drive End Air Seal	
Mechanical Fits- Bearing Housings			
53. Drive End - End Bell Bearing Fit			
0 Degrees		60 Degrees	120 Degrees
3.3478		3.3476	3.3478
 End bell oversized			
			
54. Drive End - Endbell Bearing Fit Condition			(F) Fail
55. Opposite Drive End - End Bell Bearing Fit			
0 Degrees		60 Degrees	120 Degrees
2.8352		2.8352	2.8352



57. Bearing Cap Condition

Drive End

Opposite Drive End

58. End Bell Air Seal Fits

Drive End Air Seal

Opposite Drive End Air Seal

59. List any Machine work Needed Below

sleeve drive end end bell

60. Signature of Technician Performing Measurements

Trevor Hall

Dynamic Balance Report

61. Rotor Weight and Balance Grade

Rotor Weight

Balance Grade

62. Initial Balance Readings

Drive End Readings

Opposite Drive End Readings

63. Final Balance Readings

Drive End Readings

Opposite Drive End Readings

64. Signature of the Balance Technician

Commutator Data

65. Total Copper Segment Length

1.625 inches

66. Number of Bars

104

67. Number of Wires Per Copper Bar and Size

Number of Wires per Bar

Wire Size

Unknown until burnt out, insulation and wires physically removed

68. Equalizers per Copper Bar and Equalizer Wire Size

Equalizers per Bar

Wire Size

69. Document Commutator Diameter, Minimum and Max

Current Comm Diameter

Minimum Comm Diameter

Maximum Comm Diameter

4.8625 on bars, 5.7465 on riser

70. Commutator Shaft Diameter

Front Shaft Diameter

Back Shaft Diameter

1.7360

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71. Commutator Type			
72. Commutator Bore			
73. Signature of Technician Recording Data	Trevor Hall		
			
Post Armature Rewind Testing			
74. Post Rewind Armature Insulation Resistance to Ground			
75. Post Rewind Field Circuit Measure the Insulation Resistance to Ground			
76. Post Rewind Armature Number of Bars - Bar to Bar Test			
Number of Bars	Bar to Bar Test		
77. Post Rewind Field Circuit Insulation Resistance to Ground			
78. Post Rewind Interpole Circuit Insulation Resistance to Ground			
79. Post Rewind Field Drop Test Fields 1&2			
Total AC Voltage	Field #1	Field #2	
80. Post Rewind Field Drop Test Fields 3&4			
Field #3	Field #4	Field #2	
81. Post Rewind Field Drop Test Fields 5&6			
Field #5	Field #6	Field #2	
82. Post Rewind Field Drop Test Fields 7&8			
Field #7	Field #8	Field #2	
83. Post Rewind Interpole Drop Test 1&2			
Total AC Voltage	Interpole #1	Interpole #2	
84. Post Rewind Interpole Drop Test 3&4			
Interpole #3	Interpole #4	Field #2	
85. Post Rewind Interpole Drop Test 5&6			
Interpole #5	Interpole #6	Field #2	
86. Post Rewind Interpole Drop Test 7&8			
Interpole #7	Interpole #8	Field #2	
Post Mechanical Repair			
87. Post Repair Coupling Fit Closest to Bearing Housing			
0 Degrees	60 degrees	120 degrees	
88. Post Repair Coupling Fit Closest to the End of the Shaft			
0 Degrees	60 degrees	120 degrees	
89. Post Repair Drive End Bearing Shaft Fit			
0 Degrees	60 Degrees	120 Degrees	

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90.	Post Repair Drive End Bearing Shaft Fit Condition		
91.	Post Repair Drive End Opposite Drive End Bearing Shaft Fit		
	0 Degrees	60 Degrees	120 Degrees
92.	Post Repair Drive End Opposite Drive End Bearing Shaft Fit Condition		
93.	Post Repair Drive End - End Bell Bearing Fit		
	0 Degrees	60 Degrees	120 Degrees
94.	Post Repair Drive End - Endbell Bearing Fit Condition		
95.	Post Repair Opposite Drive End - End Bell Bearing Fit		
	0 Degrees	60 Degrees	120 Degrees
96.	Post Repair Opposite Drive End - Endbell Bearing Fit Condition		
97.	Post Repair Bearing Cap Condition		
	Drive End	Opposite Drive End	
98.	Post Repair End Bell Air Seal Fits		
	Drive End Air Seal	Opposite Drive End Air Seal	
99.	Signature of Tech Performing Mechanical Repairs		
Assembly			
100.	Take Pictures of all Major Components Prior to Reassembly		
101.	Verify Brush Box Holders Have the Proper Clearance, and Brushes have been Seated Properly		
102.	Assembled Shaft End Play and Runout		
	Shaft Endplay	Shaft Runout	
103.	Perform No-Load Test Run, Record Armature Voltage and Current		
	Voltage	Current	
104.	Perform No-Load Test Run, Record Field Voltage and Current		
	Voltage	Current	
105.	Document Vibration Readings Drive End		
	Horizontal	Vertical	Axial
106.	Document Vibration Readings Opposite Drive End		
	Horizontal	Vertical	Axial
107.	Perform Full-Load Test Run, Record Armature Voltage and Current		
	Voltage	Current	
108.	Perform Full-Load Test Run, Record Field Voltage and Current		
	Voltage	Current	
109.	Document Vibration Readings Under Full Load Drive End		
	Horizontal	Vertical	Axial

110. Document Vibration Readings Under Full Load Opposite Drive End		
Horizontal	Vertical	Axial
111. Ambient Temperature		
112. Drive End Bearing Temps Under Full Load		
5 Minutes	10 Minutes	15 Minutes
113. Opposite Drive End Bearing Temps Under Full Load		
5 Minutes	10 Minutes	15 Minutes
114. Final Test Run Sign-Off		
115. Document Final Condition With Pictures		
116. Final QC Sign-Off		



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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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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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