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— EVERY DAY SINCE 1946 —

LR Motor Shop Repairs

**Job Number 100119**

Prepared for Nextwire, LLC (11959)

701 E Arkansas Ave  
Star City AR 71667

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DC Repair Report - *MOTOR SHOP LR*

DC Repair Report Rev. 2: 100119 - QCCAS 160SB/4 GREEN

**1.0**

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Millington, Tn 38053  
901-873-5300

## DC Repair Report

Nextwire, LLC (11959)

701 E Arkansas Ave  
Star City, AR 71667

FolderID: 100119  
FormID: 14236411

### DC Repair Report Rev. 2

**Location:** MOTOR SHOP LR  
**Job Number:** 100119  
**Serial Number:** QCCAS 160SB/4 GREEN  
**Status:** In need of Repair  
**Description:** 29KW OEMER 1500RPM 160S

**Hi-Speed Job Number:** 100119  
**Manufacturer:** Other  
**Product Number :** QCCAS 160SB/4  
**HP/KW:** 29 (kW)  
**RPM:** 1500  
**Frame:** 160S  
**Armature Voltage:** 440 (Volts)  
**Armature Current:** 74 (Amps)  
**Field Voltage:** 330 (Volts)  
**Field Current :** 2.48 (Amps)  
**J-Box Included:** Yes  
**Bearing RTDS:** No  
**Winding RTDS:** No  
**Mounting Orientation :** Horizontal

Priorities Found: ● 1 - High ● 8 - Good

### Overall Condition

1. Describe the Overall Condition of the Equipment as Received
2. Nameplate Picture

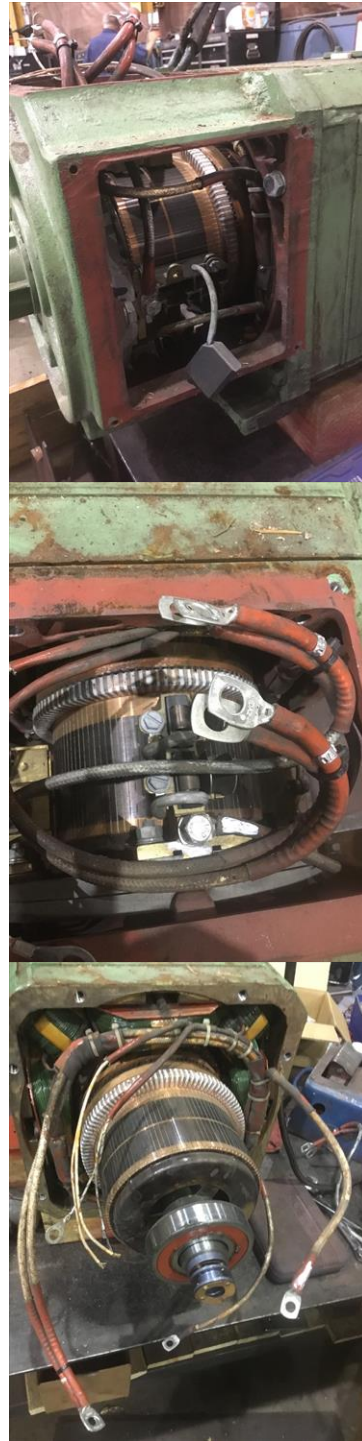


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1.4



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

#### Initial Mechanical/Electrical

- |                                  |                                    |           |
|----------------------------------|------------------------------------|-----------|
| <input checked="" type="radio"/> | 4. Does the Shaft Turn Freely?     | (Y) Yes   |
| <input checked="" type="radio"/> | 5. Does Shaft Have Visible Damage? | (Yes) Yes |



6. Assembled Shaft Runout

7. Assembled Shaft End Play

8. Air Gap Variation <10%

<input checked="" type="radio"/>	9. Lead Condition	(P) Pass
----------------------------------	-------------------	----------

10. Lead Length

<input checked="" type="radio"/>	11. Frame Condition	(P) Pass
----------------------------------	---------------------	----------

<input checked="" type="radio"/>	12. Fan Condition	(NA) Not Applicable
----------------------------------	-------------------	---------------------

13. Brush Information

Brush Number

Quantity

Condition

E49X

4

pass

14. Brush Holder Condition - Verify proper gap to Commutator

#### Incoming Electrical Test



15. General Condition of the Armature/Commutator



16. Armature Insulation Resistance to Ground

17. Field Circuit Insulation Resistance to Ground

18. Interpole Circuit Insulation Resistance to Ground

19. Field Drop Test Fields 1&2

Total AC Voltage

Field #1

Field #2

60

60

20. Field Drop Test Fields 3&4

Field #3

Field #4

Field #2

60

60

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

0.32

0.32

24. Interpole Drop Test 3&4

Interpole #3

Interpole #4

Field #2

0.32

0.33

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

111




pass

**Mechanical Inspection**

28. Shaft Runout Drive End

inches

Key way wallowed out and key destroyed.

29. Shaft Runout Armature			
Drive End Bearing Journal	Armature Core	ODE Bearing Journal	
30. Drive End Bearing Number			
			310EC
31. Drive End Bearing Quantity			1
32. Drive End Bearing Type			(Roller) Roller Bearing
33. Drive End Lubrication Type			(Grease) Grease Lubricated
			
34. Drive End Bearing Insulation or Grounding Device?			(NA)
35. Drive End Wavy Washer/Snap-Ring Other Retention Device?			none
36. Drive End Bearing Condition			grease dirty/contaminated
37. Opposite Drive End Bearing Number			6309 LU

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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?	(NA)
42. Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?	yes



43. Opposite Drive End Bearing Condition	replace
44. Signature of Technician who Performed Teardown	Terrence. Holland

*[Handwritten signature of Terrence Holland]*

45. List Parts Needed Prior to Reassembly
<i>Tach coupling and sheave need replacing. Drive end end cap mount bolts 4 ea need replacing.</i>

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	
1.9688	1.9687	1.9686	
49. Drive End Bearing Shaft Fit Condition			(P) Pass
50. Opposite Drive End Bearing Shaft Fit			
0 Degrees	60 Degrees	120 Degrees	
1.7718	1.7719	1.7717	
51. Opposite Drive End Bearing Shaft Fit Condition			(P) Pass
52. Shaft Air Seal Fits			
Drive End Air Seal	Opposite Drive End Air Seal		
<b>Mechanical Fits- Bearing Housings</b>			
53. Drive End - End Bell Bearing Fit			
0 Degrees	60 Degrees	120 Degrees	
1.9688	1.9687	1.9686	
54. Drive End - Endbell Bearing Fit Condition			(P) Pass
55. Opposite Drive End - End Bell Bearing Fit			
0 Degrees	60 Degrees	120 Degrees	
3.937	3.937	3.9369	
56. Opposite Drive End - Endbell Bearing Fit Condition			(P) Pass
57. Bearing Cap Condition			
Drive End	Opposite Drive End		
pass	na		
58. End Bell Air Seal Fits			
Drive End Air Seal	Opposite Drive End Air Seal		
59. List any Machine work Needed Below			D.E. shaft extension key way wallowed out.



60. Signature of Technician Performing Measurements

Terrence. Holland

### Commutator Data

61. Total Copper Segment Length

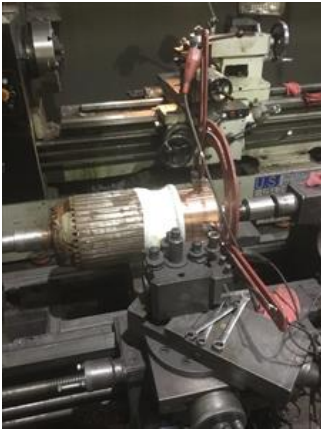
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62.	Number of Bars		
63.	Number of Wires Per Copper Bar and Size		
	Number of Wires per Bar	Wire Size	
64.	Equalizers per Copper Bar and Equalizer Wire Size		
	Equalizers per Bar	Wire Size	
65.	Document Commutator Diameter, Minimum and Max		
	Current Comm Diameter	Minimum Comm Diameter	Maximum Comm Diameter
66.	Commutator Shaft Diameter		
	Front Shaft Diameter	Back Shaft Diameter	
67.	Commutator Type		
68.	Commutator Bore		
69.	Signature of Technician Recording Data		
<b>Dynamic Balance Report</b>			
70.	Rotor Weight and Balance Grade		
	Rotor Weight	Balance Grade	
71.	Initial Balance Readings		
	Drive End Readings	Opposite Drive End Readings	
72.	Final Balance Readings		
	Drive End Readings	Opposite Drive End Readings	
73.	Signature of the Balance Technician		
<b>Post Armature Rewind Testing</b>			
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
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

440

1.7



104. Perform No-Load Test Run, Record Field Voltage and Current

Voltage

Current

332

2.7



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

RW

RL



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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.
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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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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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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.