



**KEEPING YOUR FACILITY UP TO SPEED**  
— EVERY DAY SINCE 1946 —

LR Motor Shop Repairs

**Job Number 100391**

Prepared for Midway Industries

618 Dillard  
Midway AR 72651

# Table of Contents

AC Recondition As Found - *MOTOR SHOP LR*

AC Recondition - Rev. 2: *NO NP*

**1.0**

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## AC Recondition As Found

Midway Industries

618 Dillard  
Midway, AR 72651

FolderID: 100391  
FormID: 14775143

### AC Recondition - Rev. 2

Location: MOTOR SHOP LR

Serial Number: NO NP

Hi-Speed Job Number: 100391

RPM: 1200 (RPM)

Frame: 284

Voltage: 230 / 460

Phase: Three

Hz: 60 (Hz)

Enclosure: DP

# of Leads: 9

J-box Included: None

Coupling/Sheave: None

Bearing RTDs: No

Stator RTDs: No

Repair Stage: Teardown Inspection


Rewind: Yes

Shaft Machined Fit Repairs  
Required: No

Heaters: No

Winding Type : Random Wound

Bearing Type: Rolling Element

Priorities Found:  3 - High  4 - Good

### Overall Condition

1. Report Date

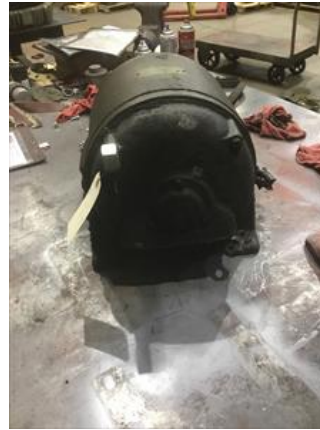
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1.0

## 2. Nameplate Picture



3. Photos of all six sides of the machine.

4. Describe the Overall Condition of the Equipment as Received

### Initial Mechanical/Electrical

<input checked="" type="radio"/>	5. Does Shaft Turn Freely?	(No) No
	6. Does Shaft Have Visible Damage?	(No) No
	7. Assembled Shaft Runout	
	8. Assembled Shaft End Play	
	9. Air Gap Variation <10%	

10. Lead Condition

(F) Fail



11. Lead Length

6 Inches

12. Frame Condition

dirty



13. Fan Condition

(N) NA

14. Broken or Missing Components

0

### Initial Electrical Inspection

15. Insulation Resistance/Megger

0 Megohms

16. Winding Resistance

1-2

1-3

2-3

17. Perform Surge Test

(F) Fail



18. Stator Condition

rewind



### Mechanical Inspection

19. Drive End Bearing Number-

6307



20. Drive End Bearing Qty.

1

21. Drive End Bearing Type

(Ball) Ball Bearing

22. Drive End Lubrication Type

(Grease) Grease Lubricated

23. Drive End Bearing Insulation or Grounding Device?

no

24. Drive End Wavy Washer/Snap-Ring Other Retention Device?

na

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25. Drive End Bearing Condition

Old hard grease



26. Opposite Drive End Bearing Number-

6307



27. Opposite Drive End Bearing Qty.	1
28. Opposite Drive End Bearing Type	(Ball) Ball Bearing
29. Opposite Drive End Lubrication Type	(Grease) Grease Lubricated
30. Opposite Drive End Bearing Insulation or Grounding Device?	na
31. Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?	na
32. Opposite Drive End Bearing Condition	

Old grease



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33. Drive End Seal	
34. Opposite Drive End Seal	
<b>Rotor Inspection</b>	
35. Rotor Type/Material	(Squirrel Aluminum) Squirrel Cage Aluminum Die Cast
36. Growler Test	(Pass) Pass
37. Number of Rotor Bars	57
38. Rotor Condition	



39. List the Parts needed for the Repair Below	
0	
40. Signature of Technician that Disassembled Motor	RW

RW

<b>Mechanical Fits- Rotor</b>			
41. Shaft Runout			
42. Rotor Runout			
	Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing
43. Coupling Fit Closest to Bearing Housing			
	0 Degrees	90 Degrees	120 Degrees
44. Coupling Fit Closest to the end of the Shaft			
	0 Degrees	60 Degrees	120 Degrees
45. Drive End Bearing Shaft Fit			
	0 Degrees	60 Degrees	120 Degrees
	1.3782	1.3782	1.3782

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46. Drive End Bearing Shaft Fit Condition

(P) Pass



47. Opposite Drive End Bearing Shaft Fit

0 Degrees

60 Degrees

120 Degrees

1.3781

1.3781

1.3781

48. Opposite Drive End Bearing Shaft Fit Condition

(P) Pass



49. Shaft Air Seal Fits

Drive End Air Seal

Opposite Drive End Air Seal

### Mechanical Fits- Bearing Housings

50. Drive End - Endbell Bearing Fit		
0 Degrees	60 Degrees	120 Degrees
3.1496	3.1496	3.1496




51. Drive End - Endbell Bearing Fit Condition		(P) Pass
52. Opposite Drive End - Endbell Bearing Fit		
0 Degrees	60 Degrees	120 Degrees
3.1498	3.1498	3.2498
53. Opposite Drive End - Endbell Bearing Fit Condition		(P) Pass



54. Bearing Cap Condition		
Drive End Bearing Cap		Opposite Drive End Bearing Cap
pass		pass



55. End Bell Air Seal Fits		
Drive End Air Seal		Opposite Drive End Air Seal

56. List Machine Work Needed Below		
57. Technician		RW
		

### Root Cause of Failure

58. Failure locations		
<i>Winding insulation breakdown</i>		



59. Root cause of failure

*Grease tar and grit*





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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.
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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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