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LR Motor Shop Repairs

**Job Number 100562**

Prepared for Remington (10243)

2592 AR Hwy 15 N  
Lonoke AR 72086

# Table of Contents



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

## AC Recondition As Found

Remington (10243)

2592 AR Hwy 15 N  
Lonoke, AR 72086

FolderID: 100562  
FormID: 15106513

### AC Recondition - Rev. 2

Location: MOTOR SHOP LR

Serial Number: 2823507

Description: 10/5HP LOUIS ALLIS 1800/900RPM  
284U 2S1WCT

Hi-Speed Job Number: 100562

Manufacturer: Other

Serial Number: 2823507

HP/kW: 10 (HP)

RPM: 1800 (RPM)

Frame: 284U

Voltage: 460

Current: 13.8/10

Phase: Three

Hz: 60 (Hz)

Service Factor: 1.0

Enclosure: TEFC

Coupling/Sheave: None

Bearing RTDs: No

Stator RTDs: No

Repair Stage: Teardown Inspection

Heaters: No

Winding Type : Random Wound

Bearing Type: Rolling Element

Priorities Found: ● 3 - High ● 6 - Good

### Overall Condition

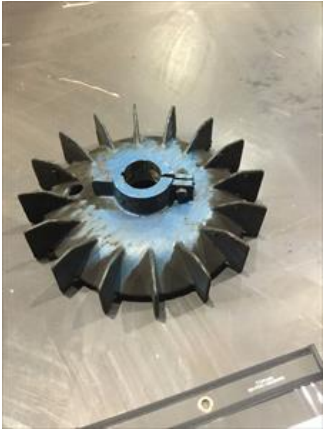
1. Report Date
2. Nameplate Picture



3. Photos of all six sides of the machine.

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4. Describe the Overall Condition of the Equipment as Received		
<i>Dirty</i>		
<b>Initial Mechanical/Electrical</b>		
<input checked="" type="radio"/>	5. Does Shaft Turn Freely?	<b>(Yes) Yes</b>
	6. Does Shaft Have Visible Damage?	<b>(No) No</b>
	7. Assembled Shaft Runout	
	8. Assembled Shaft End Play	
	9. Air Gap Variation <10%	
<input type="radio"/>	10. Lead Condition	<b>(F) Fail</b>

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11. Lead Length	8 Inches
12. Frame Condition	pass
13. Fan Condition	(P) Pass
14. Broken or Missing Components	a fan cover bolt and j-box
<b>Initial Electrical Inspection</b>	
15. Insulation Resistance/Megger	Megohms
16. Winding Resistance	
1-2	1-3 2-3
17. Perform Surge Test	(F) Fail
Windings blown	
18. Stator Condition	
<b>Mechanical Inspection</b>	
19. Drive End Bearing Number-	6311
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?	na
24. Drive End Wavy Washer/Snap-Ring Other Retention Device?	lock nut with two spacers
25. Drive End Bearing Condition	chemical erosion



26. Opposite Drive End Bearing Number-	6211
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?	wavy washer



- |                             |    |
|-----------------------------|----|
| 33. Drive End Seal          | na |
| 34. Opposite Drive End Seal | na |

**Rotor Inspection**

- |                                                                |                                                        |
|----------------------------------------------------------------|--------------------------------------------------------|
| 35. Rotor Type/Material                                        | (Squirrel Aluminum) Squirrel<br>Cage Aluminum Die Cast |
| 36. Growler Test                                               | (Pass) Pass                                            |
| 37. Number of Rotor Bars                                       | 42                                                     |
| 38. Rotor Condition                                            | pass                                                   |
| 39. List the Parts needed for the Repair Below<br>6311<br>6211 |                                                        |

- |                                                     |    |
|-----------------------------------------------------|----|
| 40. Signature of Technician that Disassembled Motor | Cw |
|-----------------------------------------------------|----|

**Mechanical Fits- Rotor**

- |                                                  |                            |
|--------------------------------------------------|----------------------------|
| 41. Shaft Runout                                 |                            |
| 42. Rotor Runout                                 |                            |
| Drive End Bearing Fit                            | Rotor Body                 |
| 43. Coupling Fit Closest to Bearing Housing      | Opposite Drive End Bearing |
| 0 Degrees                                        | 120 Degrees                |
| 90 Degrees                                       |                            |
| 44. Coupling Fit Closest to the end of the Shaft |                            |
| 0 Degrees                                        | 120 Degrees                |
| 60 Degrees                                       |                            |
| 45. Drive End Bearing Shaft Fit                  |                            |
| 0 Degrees                                        | 120 Degrees                |
| 60 Degrees                                       |                            |
| 46. Drive End Bearing Shaft Fit Condition        | (P) Pass                   |
| 47. Opposite Drive End Bearing Shaft Fit         |                            |
| 0 Degrees                                        | 120 Degrees                |
| 60 Degrees                                       |                            |



48.	Opposite Drive End Bearing Shaft Fit Condition	(P) Pass
49.	Shaft Air Seal Fits	
	Drive End Air Seal	Opposite Drive End Air Seal
<b>Mechanical Fits- Bearing Housings</b>		
50.	Drive End - Endbell Bearing Fit	
	0 Degrees	60 Degrees 120 Degrees
51.	Drive End - Endbell Bearing Fit Condition	(P) Pass
52.	Opposite Drive End - Endbell Bearing Fit	
	0 Degrees	60 Degrees 120 Degrees
53.	Opposite Drive End - Endbell Bearing Fit Condition	(P) Pass
54.	Bearing Cap Condition	
	Drive End Bearing Cap	Opposite Drive End Bearing Cap
Pass		



55.	End Bell Air Seal Fits	
	Drive End Air Seal	Opposite Drive End Air Seal
56.	List Machine Work Needed Below	
	Na	
57.	Technician	Cw
		
<b>Root Cause of Failure</b>		
58.	Failure locations	
	Bearings and windings	
59.	Root cause of failure	
	Old grease, wear, and over loaded	

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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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