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— EVERY DAY SINCE 1946 —

Motor Shop Repairs

**Job Number 99906**

Prepared for Remington (10243)

2592 AR Hwy 15 N  
Lonoke AR 72086

# Table of Contents

AC Recondition As Found - *MOTOR SHOP LR*

AC Recondition - Rev. 2: *P10091520*

**1.0**

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*Printed on 7/8/2022*

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Millington, Tn 38053  
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## AC Recondition As Found

Remington (10243)

2592 AR Hwy 15 N  
Lonoke, AR 72086

FolderID: 99906  
FormID: 13810409

### AC Recondition - Rev. 2

Location: MOTOR SHOP LR

Serial Number: P10091520

Description: 0.58KW RENI CIRILLO 1800RPM  
SHAKER

Hi-Speed Job Number: 99906

Manufacturer: Other

Product Number: PVF-F 173

Serial Number: P10091520

HP/kW: 0.58 (kW)

RPM: 1800 (RPM)

Voltage: 230 / 460

Current: 3.9/2.23

Phase: Three

Hz: 60 (Hz)

J-box Included: None

Coupling/Sheave: None

Date Received: 06/10/2022

Bearing RTDs: No


Stator RTDs: No

Repair Stage: Final

Heaters: No

Winding Type : Random Wound

Bearing Type: Rolling Element

Priorities Found:  2 - Good

### Overall Condition

1. Report Date
2. Nameplate Picture

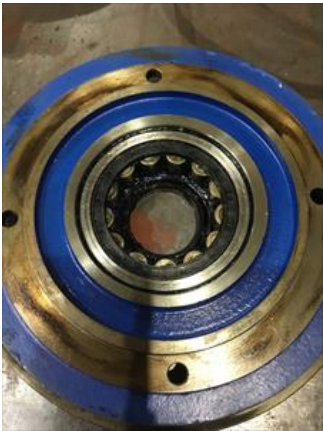
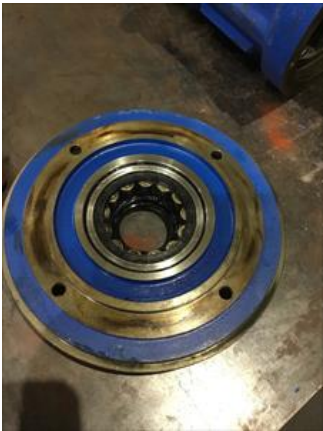


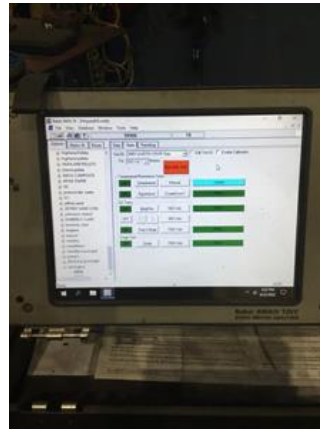
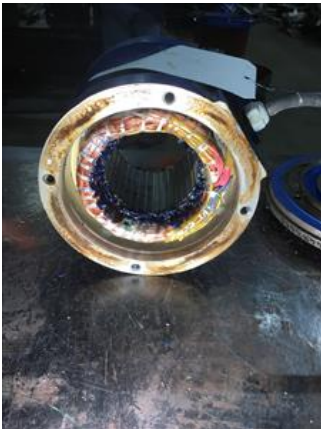
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3. Describe the Overall Condition of the Equipment as Received

*Good*

#### Initial Mechanical/Electrical

4. Does Shaft Turn Freely?

5. Does Shaft Have Visible Damage?

6. Assembled Shaft Runout

7. Assembled Shaft End Play

8. Air Gap Variation <10%

9. Lead Condition (P) Pass

10. Lead Length

11. Frame Condition

pass

12. Fan Condition

13. Broken or Missing Components

#### Initial Electrical Inspection

14. Insulation Resistance/Megger

15. Winding Resistance

1-2

1-3

2-3

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17. Stator Condition

pass

**Mechanical Inspection**

18. Drive End Bearing Number-

NJ310E

19. Drive End Bearing Qty.

20. Drive End Bearing Type

21. Drive End Lubrication Type

22. Drive End Bearing Insulation or Grounding Device?

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

24. Drive End Bearing Condition

25. Opposite Drive End Bearing Number-

26. Opposite Drive End Bearing Qty.

27. Opposite Drive End Bearing Type

28. Opposite Drive End Lubrication Type

29. Opposite Drive End Bearing Insulation or Grounding Device?

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

31. Opposite Drive End Bearing Condition

32. Drive End Seal

33. Opposite Drive End Seal

**Rotor Inspection**

34. Rotor Type/Material

35. Growler Test

36. Number of Rotor Bars

37. Rotor Condition

38. List the Parts needed for the Repair Below

39. Signature of Technician that Disassembled Motor

**Mechanical Fits- Rotor**

40. Shaft Runout

41. Rotor Runout

Drive End Bearing Fit

Rotor Body

Opposite Drive End Bearing

42. Coupling Fit Closest to Bearing Housing

0 Degrees

90 Degrees

120 Degrees



43. Coupling Fit Closest to the end of the Shaft		
0 Degrees	60 Degrees	120 Degrees
44. Drive End Bearing Shaft Fit		
0 Degrees	60 Degrees	120 Degrees
45. Drive End Bearing Shaft Fit Condition		
46. Opposite Drive End Bearing Shaft Fit		
0 Degrees	60 Degrees	120 Degrees
47. Opposite Drive End Bearing Shaft Fit Condition		
48. Shaft Air Seal Fits		
Drive End Air Seal	Opposite Drive End Air Seal	
<b>Mechanical Fits- Bearing Housings</b>		
49. Drive End - Endbell Bearing Fit		
0 Degrees	60 Degrees	120 Degrees
50. Drive End - Endbell Bearing Fit Condition		
51. Opposite Drive End - Endbell Bearing Fit		
0 Degrees	60 Degrees	120 Degrees
52. Opposite Drive End - Endbell Bearing Fit Condition		
53. Bearing Cap Condition		
Drive End Bearing Cap	Opposite Drive End Bearing Cap	
54. End Bell Air Seal Fits		
Drive End Air Seal	Opposite Drive End Air Seal	
55. List Machine Work Needed Below		
56. Technician		
<b>Dynamic Balance Report</b>		
57. Rotor Weight and Balance Grade		
Rotor Weight	Balance Grade	
58. Initial Balance Readings		
Drive End	Opposite Drive End	
59. Final Balance Readings		
Drive End	Opposite Drive End	
60. Technician		
<b>Rewind</b>		
61. Core Test Results - Watts loss per Pound		
Pre-Burnout	Post Burnout	
62. Core Hot Spot Test		
Pre-Burnout	Post-Burnout	

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63.	Post Rewind Electrical Test- Insulation Resistance		
64.	Post Rewind Polarization Index		
65.	Post Rewind Winding Resistance		
	1-2	1-3	2-3
66.	Post Rewind Surge Test		
67.	Post Rewind Hi-Pot		
68.	Technician		
Root Cause of Failure			
69.	Failure locations		
70.	Root cause of failure		
Mechanical Fits- Rotor - Post Repair			
71.	Shaft Runout Post Repair		
72.	Rotor Runout Post Repair		
	Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing
73.	Coupling Fit Closest to Bearing Housing Post Repair		
	0 Degrees	90 Degrees	120 Degrees
74.	Coupling Fit Closest to the end of the Shaft Post Repair		
	0 Degrees	60 Degrees	120 Degrees
75.	Drive End Bearing Shaft Fit Post Repair		
	0 Degrees	60 Degrees	120 Degrees
76.	Opposite Drive End Bearing Shaft Fit Post Repair		
	0 Degrees	60 Degrees	120 Degrees
77.	Shaft Air Seal Fits Post Repair		
	Drive End Air Seal	Opposite Drive End Air Seal	
78.	Shaft Repair Sign-off		
Mechanical Fits- Bearing Housings - Post Repair			
79.	Drive End - Endbell Bearing Fit Post Repair		
	0 Degrees	60 Degrees	120 Degrees
80.	Opposite Drive End - Endbell Bearing Fit Post Repair		
	0 Degrees	60 Degrees	120 Degrees
81.	Bearing Cap Condition Post Repair		
	Drive End Bearing Cap	Opposite Drive End Bearing Cap	
82.	End Bell Air Seal Fits Post Repair		
	Drive End Air Seal	Opposite Drive End Air Seal	
83.	End Bell Repair Sign-off		
Assembly			
84.	Photograph All Major Components prior to assembly		
85.	Final Insulation Resistance Test		

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86.	Assembled Shaft Endplay		
87.	Assembled Shaft Runout		
88.	Test Run Voltage		
	Volts	Volts	Volts
89.	Test Run Amperage		
	Amps	Amps	Amps
90.	Drive End Vibration Readings - Inches Per Second		
	Horizontal	Vertical	Axial
91.	Opposite Drive End Vibration Readings - Inches Per Second		
	Horizontal	Vertical	Axial
92.	Ambient Temperature - Fahrenheit		
93.	Drive End Bearing Temps - Fahrenheit		
	5 Minutes	10 Minutes	15 Minutes
94.	Opposite Drive End Bearing Temps - Fahrenheit		
	5 Minutes	10 Minutes	15 Minutes
95.	Final Test Run Sign-off		
96.	Document Final Condition with Pictures after paint		



## 97. Final Pics and QC Review

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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.
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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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