



AC Recondition As Found

Remington (10243)

2592 AR Hwy 15 N

Lonoke, AR 72086

FolderID: 101094
FormID: 16235738

AC Recondition - Rev. 2

Location: Shop

Serial Number: 5KS324BL115A

Description: 40HP GE 3600RPM 324TS

Hi-Speed Job Number: 101094

Manufacturer: GE

Product Number: 5KS324BL115A

Serial Number: LW

HP/kW: 40 (HP)

RPM: 3565 (RPM)

Frame: 324TS

Voltage: 230 / 460

Current: 87.4/43.7

Phase: Three

Hz: 60 (Hz)

Service Factor: 1.15

Enclosure: TEFC

J-box Included: Complete

Coupling/Sheave: None

Bearing RTDs: No

Stator RTDs: No

Repair Stage: Final

Heaters: No

Winding Type : Random Wound

Bearing Type: Rolling Element

Priorities Found: 1 - High

7 - Good

Overall Condition



1. Report Date

2. Nameplate Picture

P37

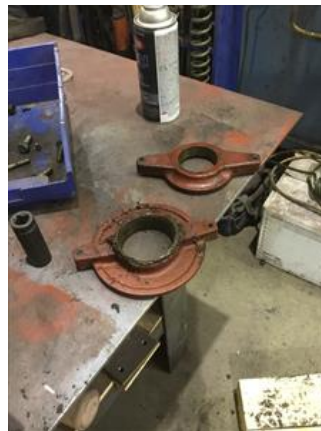


3. Photos of all six sides of the machine.

P45

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4. Describe the Overall Condition of the Equipment as Received

Initial Mechanical/Electrical 

- | | | | |
|----|---------------------------------|-----------|-----|
| 5. | Does Shaft Turn Freely? | (Yes) Yes | |
| 6. | Does Shaft Have Visible Damage? | (No) No | P18 |



- | | | | |
|----|--------------------------|--|--|
| 7. | Assembled Shaft Runout | | |
| 8. | Assembled Shaft End Play | | |
| 9. | Air Gap Variation <10% | | |

- | | | | |
|-----|----------------|----------|-----|
| 10. | Lead Condition | (P) Pass | P54 |
|-----|----------------|----------|-----|



- | | | | |
|-----|-----------------|-----------|--|
| 11. | Lead Length | 10 Inches | |
| 12. | Frame Condition | pass | |



Initial Electrical Inspection 

1-2	1-3	2-3
-----	-----	-----





Mechanical Inspection



20. Drive End Bearing Brand

skf

21. Drive End Bearing Number-

6312

P32



22. Drive End Bearing Qty.

1

P35



23. Drive End Bearing Type

(Ball) Ball Bearing

24. Drive End Lubrication Type

(Grease) Grease Lubricated

25. Drive End Bearing Insulation or Grounding Device?

none

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

none

27. Drive End Bearing Condition

replace

28. Opposite Drive End Bearing Brand

skf

P84



29. Opposite Drive End Bearing Number-

P86



30. Opposite Drive End Bearing Qty.

1

31. Opposite Drive End Bearing Type






(Ball) Ball Bearing

32. Opposite Drive End Lubrication Type

(Grease) Grease Lubricated

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33.	Opposite Drive End Bearing Insulation or Grounding Device?	none	
34.	Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?	wavy washer destroyed	P96
			
35.	Opposite Drive End Bearing Condition	replace	
36.	Drive End Seal		
37.	Opposite Drive End Seal		
Rotor Inspection 			
38.	Rotor Type/Material	(Squirrel Aluminum) Squirrel Cage Aluminum Die Cast	P3
			
39.	Growler Test	(Pass) Pass	
40.	Number of Rotor Bars		
41.	Rotor Condition	pass	
42.	List the Parts needed for the Repair Below		
43.	Signature of Technician that Disassembled Motor	Terrence Holland	
			
Mechanical Fits- Rotor			
44.	Shaft Runout	0.001 inches	
45.	Rotor Runout		
	Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing

46.	Coupling Fit Closest to Bearing Housing			
	0 Degrees	90 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	
	2.3625	2.3625	2.3624	
49.	Drive End Bearing Shaft Fit Condition			(P) Pass
50.	Opposite Drive End Bearing Shaft Fit			
	0 Degrees	60 Degrees	120 Degrees	
	1.9686	1.9685	1.9686	
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 - Endbell Bearing Fit			
	0 Degrees	60 Degrees	120 Degrees	
	5.1185	5.1187	5.1186	
54.	Drive End - Endbell Bearing Fit Condition			(P) Pass
55.	Opposite Drive End - Endbell Bearing Fit			P30
	0 Degrees	60 Degrees	120 Degrees	
	 Excessive wear groove. Re-sleeve housing fit.q			
	<div>   </div>			
56.	Opposite Drive End - Endbell Bearing Fit Condition			(F) Fail
	 Excessive wear.			

57. Bearing Cap Condition

Drive End Bearing Cap
pass

Opposite Drive End Bearing Cap
pass



58. End Bell Air Seal Fits

Drive End Air Seal

Opposite Drive End Air Seal

59. List Machine Work Needed Below

Re-sleeve O.D.E housing fit.

60. Technician

Terrence Holland

Dynamic Balance Report

61. Rotor Weight and Balance Grade

Rotor Weight

Balance Grade

62. Initial Balance Readings

Drive End

Opposite Drive End

63. Final Balance Readings

Drive End

Opposite Drive End

64. Technician

Rewind

65. Core Test Results - Watts loss per Pound

Pre-Burnout

Post Burnout

66. Core Hot Spot Test

Pre-Burnout

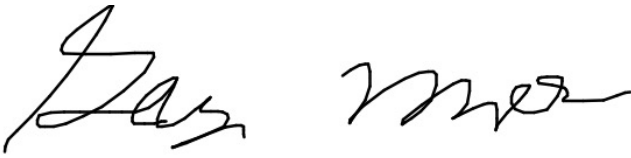
Post-Burnout

67. Post Rewind Electrical Test- Insulation Resistance

68. Post Rewind Polarization Index

69. Post Rewind Winding Resistance			
1-2	1-3	2-3	
70. Post Rewind Surge Test			
71. Post Rewind Hi-Pot			
72. Technician			
Root Cause of Failure			
73. Failure locations			
74. Root cause of failure			
Mechanical Fits- Rotor - Post Repair			
75. Shaft Runout Post Repair			
76. Rotor Runout Post Repair			
Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing	
77. Coupling Fit Closest to Bearing Housing Post Repair			
0 Degrees	90 Degrees	120 Degrees	
78. Coupling Fit Closest to the end of the Shaft Post Repair			
0 Degrees	60 Degrees	120 Degrees	
79. Drive End Bearing Shaft Fit Post Repair			
0 Degrees	60 Degrees	120 Degrees	
80. Opposite Drive End Bearing Shaft Fit Post Repair			
0 Degrees	60 Degrees	120 Degrees	
81. Shaft Air Seal Fits Post Repair			
Drive End Air Seal	Opposite Drive End Air Seal		
82. Shaft Repair Sign-off			
Mechanical Fits- Bearing Housings - Post Repair			
83. Drive End - Endbell Bearing Fit Post Repair			
0 Degrees	60 Degrees	120 Degrees	
84. Opposite Drive End - Endbell Bearing Fit Post Repair			
0 Degrees	60 Degrees	120 Degrees	
85. Bearing Cap Condition Post Repair			
Drive End Bearing Cap	Opposite Drive End Bearing Cap		
86. End Bell Air Seal Fits Post Repair			
Drive End Air Seal	Opposite Drive End Air Seal		

87. End Bell Repair Sign-off



Assembly

88. QC Check All Parts for Cleanliness Prior to Assembly

89. Photograph All Major Components prior to assembly

90. Final Insulation Resistance Test

91. Assembled Shaft Endplay

92. Assembled Shaft Runout

93. Test Run Voltage

Volts

Volts

Volts

94. Test Run Amperage

Amps

Amps

Amps

95. Drive End Vibration Readings - Inches Per Second

Horizontal

Vertical

Axial

96. Opposite Drive End Vibration Readings - Inches Per Second

Horizontal

Vertical

Axial

97. Ambient Temperature - Fahrenheit

98. Drive End Bearing Temps - Fahrenheit

5 Minutes

10 Minutes

15 Minutes

99. Opposite Drive End Bearing Temps - Fahrenheit

5 Minutes

10 Minutes

15 Minutes

100. Document Final Condition with Pictures after paint

101. Final Pics and QC Review