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:	Final
Heaters:	No
Winding Type :	Random Wound
Bearing Type:	Rolling Element

Priorities Found: **3 - High** **6 - Good**

Overall Condition

1. Report Date

2. Nameplate Picture P21

3. Photos of all six sides of the machine. P27










	4.	Describe the Overall Condition of the Equipment as Received ***Dirty***	

Initial Mechanical/Electrical

🟢	5.	Does Shaft Turn Freely?	**(Yes) Yes**
	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	**8 Inches**
	12.	Frame Condition	**pass**

13.	Fan Condition		**(P) Pass**	
14.	Broken or Missing Components		**a fan cover bolt and j-box**	
Initial Electrical Inspection				
15.	Insulation Resistance/Megger		**Megohms**	
16.	Winding Resistance			
	1-2	1-3	2-3	
17.	Perform Surge Test		**(F) Fail**	
	Windings blown			
18.	Number of Stator Slots			
19.	Stator Condition			
Mechanical Inspection				
20.	Drive End Bearing Number-		**6311**	
21.	Drive End Bearing Qty.		**1**	
22.	Drive End Bearing Type		**(Ball) Ball Bearing**	
23.	Drive End Lubrication Type		**(Grease) Grease Lubricated**	
24.	Drive End Bearing Insulation or Grounding Device?		**na**	
25.	Drive End Wavy Washer/Snap-Ring Other Retention Device?		**lock nut with two spacers**	
26.	Drive End Bearing Condition		**chemical erosion**	P42

27.	Opposite Drive End Bearing Number-	**6211**	
28.	Opposite Drive End Bearing Qty.	**1**	
29.	Opposite Drive End Bearing Type	**(Ball) Ball Bearing**	
30.	Opposite Drive End Lubrication Type	**(Grease) Grease Lubricated**	
31.	Opposite Drive End Bearing Insulation or Grounding Device?	**na**	
32.	Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?	**wavy washer**	

33.	Opposite Drive End Bearing Condition	**chemical erosion**	P56

34.	Drive End Seal	**na**
35.	Opposite Drive End Seal	**na**

Rotor Inspection

36.	Rotor Type/Material	**(Squirrel Aluminum) Squirrel Cage Aluminum Die Cast**
37.	Growler Test	**(Pass) Pass**
38.	Number of Rotor Bars	**42**
39.	Rotor Condition	**pass**
40.	List the Parts needed for the Repair Below ***6311*** ***6211***	
41.	Signature of Technician that Disassembled Motor	**Cw**

Mechanical Fits- Rotor

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

48. Opposite Drive End Bearing Shaft Fit

0 Degrees	60 Degrees	120 Degrees

49. Opposite Drive End Bearing Shaft Fit Condition **(P) Pass**

50. Shaft Air Seal Fits

Drive End Air Seal	Opposite Drive End Air Seal

Mechanical Fits- Bearing Housings

51. Drive End - Endbell Bearing Fit

0 Degrees	60 Degrees	120 Degrees

52. Drive End - Endbell Bearing Fit Condition **(P) Pass**

53. Opposite Drive End - Endbell Bearing Fit

0 Degrees	60 Degrees	120 Degrees

54. Opposite Drive End - Endbell Bearing Fit Condition **(P) Pass**

55. Bearing Cap Condition P30

Drive End Bearing Cap	Opposite Drive End Bearing Cap

Pass

56. End Bell Air Seal Fits

Drive End Air Seal	Opposite Drive End Air Seal

57. List Machine Work Needed Below

Na

58. Technician **Cw**

Dynamic Balance Report

59. Rotor Weight and Balance Grade

Rotor Weight	Balance Grade

60. Initial Balance Readings

Drive End	Opposite Drive End

61. Final Balance Readings

Drive End	Opposite Drive End

62. Technician

Rewind

63. Core Test Results - Watts loss per Pound

Pre-Burnout	Post Burnout

64. Core Hot Spot Test

Pre-Burnout	Post-Burnout

65. Post Rewind Electrical Test- Insulation Resistance

66. Post Rewind Polarization Index

67. Post Rewind Winding Resistance

1-2	1-3	2-3

68. Post Rewind Surge Test

69. Post Rewind Hi-Pot

70. Technician

Root Cause of Failure

71. Failure locations

Bearings and windings

72. Root cause of failure

Old grease, wear, and over loaded

Mechanical Fits- Rotor - Post Repair

73. Shaft Runout Post Repair

74. Rotor Runout Post Repair

Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing

75. Coupling Fit Closest to Bearing Housing Post Repair

0 Degrees	90 Degrees	120 Degrees

76. Coupling Fit Closest to the end of the Shaft Post Repair

0 Degrees	60 Degrees	120 Degrees

77. Drive End Bearing Shaft Fit Post Repair

0 Degrees	60 Degrees	120 Degrees

78. Opposite Drive End Bearing Shaft Fit Post Repair

0 Degrees	60 Degrees	120 Degrees

79. Shaft Air Seal Fits Post Repair

Drive End Air Seal	Opposite Drive End Air Seal

80. Shaft Repair Sign-off

Mechanical Fits- Bearing Housings - Post Repair

81. Drive End - Endbell Bearing Fit Post Repair — P0

0 Degrees	60 Degrees	120 Degrees
4.7246	**4.7247**	**4.7247**

Relocated mounting holes 60 degrees .

82. Opposite Drive End - Endbell Bearing Fit Post Repair

0 Degrees	60 Degrees	120 Degrees

83. Bearing Cap Condition Post Repair

Drive End Bearing Cap	Opposite Drive End Bearing Cap

84. End Bell Air Seal Fits Post Repair

Drive End Air Seal	Opposite Drive End Air Seal

85. End Bell Repair Sign-off

Assembly

86. Photograph All Major Components prior to assembly
87. Final Insulation Resistance Test
88. Assembled Shaft Endplay
89. Assembled Shaft Runout
90. Test Run Voltage

Volts	Volts	Volts

91. Test Run Amperage

Amps	Amps	Amps

92. Drive End Vibration Readings - Inches Per Second

Horizontal	Vertical	Axial

93. Opposite Drive End Vibration Readings - Inches Per Second

Horizontal	Vertical	Axial

94. Ambient Temperature - Fahrenheit

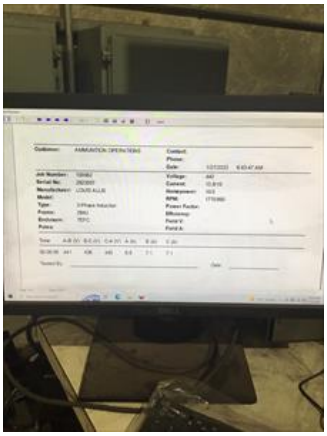
95. Drive End Bearing Temps - Fahrenheit

5 Minutes	10 Minutes	15 Minutes

96. Opposite Drive End Bearing Temps - Fahrenheit

5 Minutes	10 Minutes	15 Minutes

97. Final Test Run Sign-off **Terrence. Holland** P2100



98. Document Final Condition with Pictures after paint P2200

99. Final Pics and QC Review **Terrence Holland**