



AC Recondition As Found

Remington (10243)

2592 AR Hwy 15 N
Lonoke, AR 72086

FolderID: 100563
FormID: 15107300

AC Recondition - Rev. 2

Location: MOTOR SHOP LR

Serial Number: 1-1-5102-32771-1-5

Description: 15HP ALLIS-CHALMERS 1800RPM
254T

Hi-Speed Job Number: 100563

Manufacturer: Allis Chalmers

Product Number: 95

Serial Number: 1-5102-32771-1-5

HP/kW: 15 (HP)

RPM: 1750 (RPM)

Frame: 254T

Voltage: 230 / 460

Current: 38/19

Phase: Three

Hz: 60 (Hz)

Service Factor: 1.15

Enclosure: ODP

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

● 5 - Good

Overall Condition



1. Report Date
2. Nameplate Picture

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3. Photos of all six sides of the machine.

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



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	Inches
8.	Assembled Shaft End Play	
9.	Air Gap Variation <10%	
10.	Lead Condition	(P) Pass
11.	Lead Length	8 Inches
12.	Frame Condition	pass

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13.	Fan Condition	(N) NA	
14.	Broken or Missing Components	j-box cover	
Initial Electrical Inspection			
15.	Insulation Resistance/Megger	Megohms	
16.	Winding Resistance		
	1-2	1-3	2-3
17.	Perform Surge Test	(P) Pass	P35
			
18.	Stator Condition	pass	
19.	Number of Stator Slots		
Mechanical Inspection			
20.	Drive End Bearing Number-	6209	
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?	na	
26.	Drive End Bearing Condition	signs of frosting	
27.	Opposite Drive End Bearing Number-	6209	
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?	na	
33.	Opposite Drive End Bearing Condition	signs of frosting	
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	36	
39.	Rotor Condition	pass	
40.	List the Parts needed for the Repair Below		
	6209x2		
	Recommend aegis ring		

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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

1.7720x3

47. Drive End Bearing Shaft Fit Condition

(P) Pass

48. Opposite Drive End Bearing Shaft Fit

0 Degrees

60 Degrees

120 Degrees

1.7722
1.7719x2

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

3.3478x2

52. Drive End - Endbell Bearing Fit Condition

(F) Fail

53. Opposite Drive End - Endbell Bearing Fit

0 Degrees

60 Degrees

120 Degrees

3.3479
3.3480

54. Opposite Drive End - Endbell Bearing Fit Condition


(F) Fail

55. Bearing Cap Condition




Drive End Bearing Cap

Opposite Drive End Bearing Cap


Na



56.	End Bell Air Seal Fits		
	Drive End Air Seal	Opposite Drive End Air Seal	
57.	List Machine Work Needed Below <i>Both end bell bearing fits</i>		
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 <i>Bearings and end bell bearing fits</i>		
72.	Root cause of failure <i>Frosting and wear</i>		
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

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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	
3.347	3.347	3.347	
			
82. Opposite Drive End - Endbell Bearing Fit Post Repair			P100
0 Degrees	60 Degrees	120 Degrees	
3.3471	3.3471	3.3471	
			

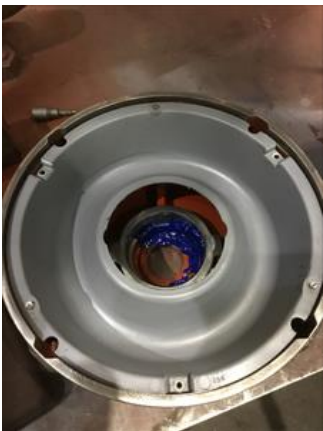
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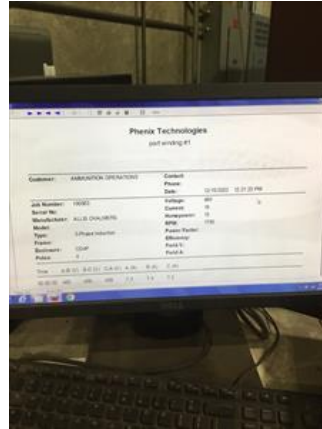
83.	Bearing Cap Condition Post Repair		
	Drive End Bearing Cap	Opposite Drive End Bearing Cap	
84.	End Bell Air Seal Fits Post Repair		
	Drive End Air Seal	Opposite Drive End Air Seal	
85.	End Bell Repair Sign-off		
Assembly			
86.	Photograph All Major Components prior to assembly		
87.	Final Insulation 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		
98.	Document Final Condition with Pictures after paint		

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99. Final Pics and QC Review

Terrence Holland

P2300

Terrence Holland



