



AC Recondition As Found

Almatis Inc/RCP Bauxite (10014)

4701 Alcoa Road
Bauxite, AR 72011

FolderID: 100793
FormID: 15732551

AC Recondition - Rev. 2

Location: LR Motor Shop

Serial Number: M610194

Description: 12.5HP IMPERIAL ELECTRIC
1200/360RPM 326T

Hi-Speed Job Number: 100793

Manufacturer: Other

Serial Number: M610194

HP/kW: 12.5 (HP)

RPM: 1200 (RPM)

Frame: 326T

Voltage: 460

Current: 16.6/11.0

Phase: Three

Hz: 60 (Hz)

Service Factor: 1.00

Enclosure: ODP

J-box Included: None

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

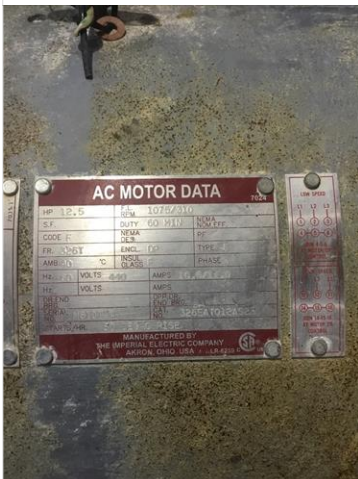
4 - Good

Overall Condition



- Report Date
- Nameplate Picture

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- Photos of all six sides of the machine.

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4. Describe the Overall Condition of the Equipment as Received

Initial Mechanical/Electrical

- 5. Does Shaft Turn Freely?
- 6. Does Shaft Have Visible Damage?
- 7. Assembled Shaft Runout
- 8. Assembled Shaft End Play
- 9. Air Gap Variation <10%
- 10. Lead Condition
- 11. Lead Length
- 12. Frame Condition
- 13. Fan Condition
- 14. Broken or Missing Components

Initial Electrical Inspection



- 15. Insulation Resistance/Megger Megohms
- 16. Winding Resistance

1-2

1-3

2-3



18. Number of Stator Slots

19. Stator Condition

Mechanical Inspection

20. Drive End Bearing Number-

21. Drive End Bearing Qty.

22. Drive End Bearing Type

23. Drive End Lubrication Type

24. Drive End Bearing Insulation or Grounding Device?

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

26. Drive End Bearing Condition

27. Opposite Drive End Bearing Number-

6209Z

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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?

none

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

none

33. Opposite Drive End Bearing Condition

replace

34. Drive End Seal

none

35. Opposite Drive End Seal

none

Rotor Inspection



37. Growler Test

38. Number of Rotor Bars

39. Rotor Condition

40. List the Parts needed for the Repair Below

41. Signature of Technician that Disassembled Motor

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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

2.1657**2.1657****2.1657**

● 47. Drive End Bearing Shaft Fit Condition

(P) Pass

48. Opposite Drive End Bearing Shaft Fit

0 Degrees

60 Degrees

120 Degrees

1.7718**1.7717****1.7718**

● 49. Opposite Drive End Bearing Shaft Fit Condition

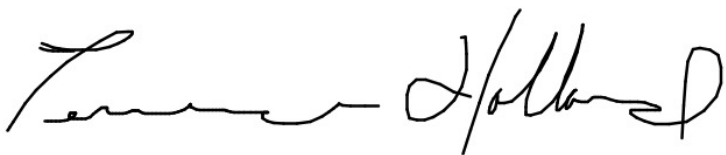
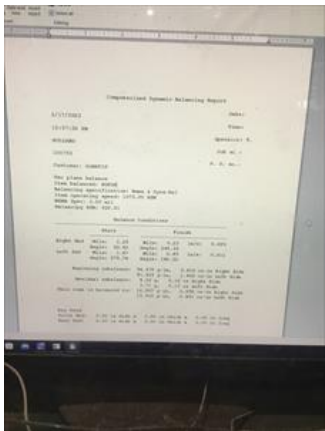
(P) Pass

50. Shaft Air Seal Fits


Drive End Air Seal

Opposite Drive End Air Seal

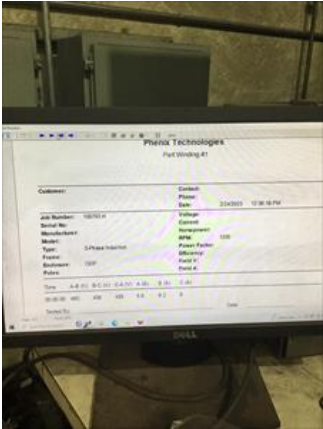
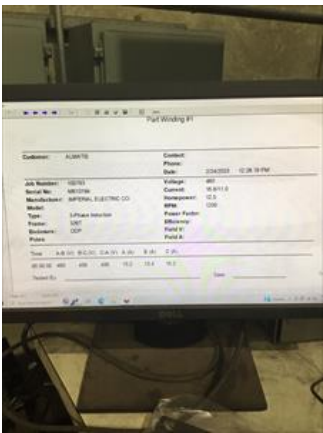
Mechanical Fits- Bearing Housings

51.	Drive End - Endbell Bearing Fit		
	0 Degrees	60 Degrees	120 Degrees
	4.725	4.7249	4.7251
52.	Drive End - Endbell Bearing Fit Condition		(P) Pass
53.	Opposite Drive End - Endbell Bearing Fit		
	0 Degrees	60 Degrees	120 Degrees
	3.3468	3.3467	3.3468
54.	Opposite Drive End - Endbell Bearing Fit Condition		(P) Pass
55.	Bearing Cap Condition		
	Drive End Bearing Cap	Opposite Drive End Bearing Cap	
56.	End Bell Air Seal Fits		
	Drive End Air Seal	Opposite Drive End Air Seal	
57.	List Machine Work Needed Below		
58.	Technician		Terrence Holland
			
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		
72.	Root cause of failure		
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		
	0 Degrees	60 Degrees	120 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		P97
			

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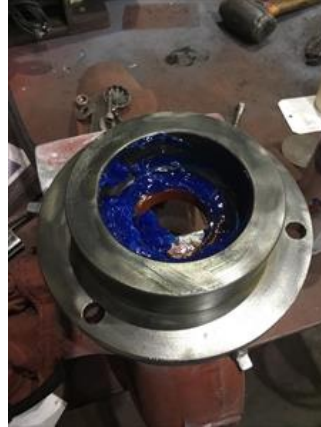


98. Document Final Condition with Pictures after paint

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99. Final Pics and QC Review

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