



AC Inspection as Found
Almatis Inc/RCP Bauxite (10014)
4701 Alcoa Road
Bauxite, AR 72011

FolderID: 103039
FormID: 20517170



AC Inspection - Rev. 2

Location: LR Motor Shop
Serial Number: P1022397037 KD
Description: 75HP LOUIS ALLIS

Hi-Speed Job Number:	103039
Manufacturer:	Louis Allis
Product Number:	LAM75 18 365T
Spec/ID #:	UL CERTIFIED
Serial Number:	P1022397037 KD
HP/kW:	75 (HP)
RPM:	1785 (RPM)
Frame:	365T
Voltage:	230 / 460
Current:	171.6/85.8 (Amps)
Phase:	Three
Hz:	60 (Hz)
Service Factor:	1.25
Enclosure:	TEFC
# of Leads:	12
J-box Included:	Complete
Coupling/Sheave:	None
Date Received:	05/29/2024
Bearing RTDs:	No
Stator RTDs:	No
Repair Stage:	Teardown Inspection
Rewind:	No
Shaft Machined Fit Repairs Required:	Yes
Bearing Housing Machined Fit Repairs Required:	Yes
Heaters:	No
Winding Type :	Random Wound
Bearing Type:	Rolling Element

Priorities Found: ● 2 - High ● 9 - Good




Overall Condition







4. Describe the Overall Condition of the Equipment as Received
Good condition, passed all electrical tests. Requires machine work to shaft and end bells.

Initial Mechanical/Electrical		
	5. Does Shaft Turn Freely?	(Y) Yes
	6. Does the shaft require T.I.R in Lathe to identify additional repairs?	(No) No

7. Does Shaft Have Visible Damage?

(Yes) Yes

P26



8. Assembled Shaft Runout	0.003 Inches
9. Assembled Shaft End Play	0.001 inches
10. Air Gap Variation <10%	No Provisions for measurement
11. Lead Condition	(P) Pass
12. Lead Length	16 Inches
13. Does it have Lugs?, If so what is the Stud Size?	(No) No
14. Lead Numbers	T1-12
15. Frame Condition	Pass
16. Fan Condition	(P) Pass
17. Broken or Missing Components	Lifting eye

Initial Electrical Inspection


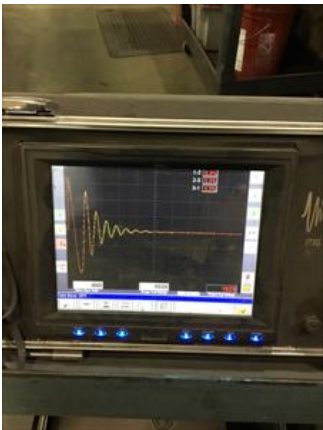
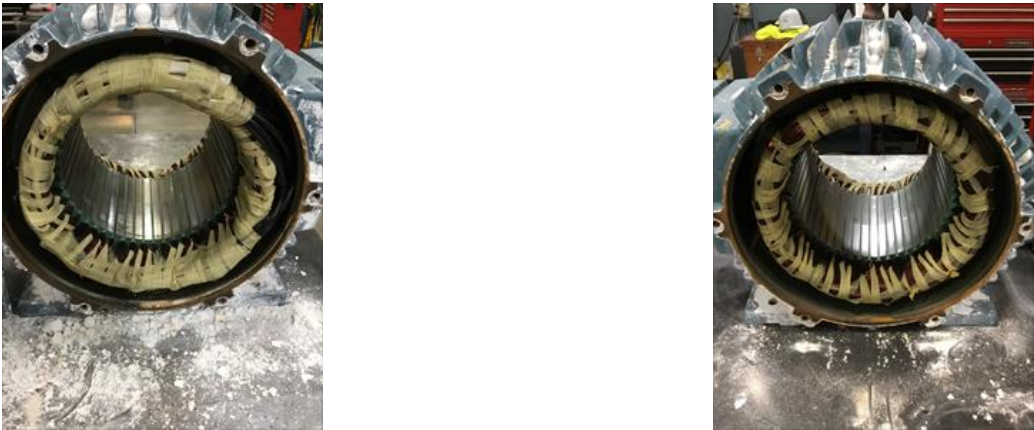



18. Insulation Resistance/Megger 92000 Megohms

P8



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19. Winding Resistance		P20
1-2	1-3	2-3
.06811	.06811	.06806
		
20. Perform Surge Test	(P) Pass	P57
		
21. Number of Stator Slots	48	
22. Stator Condition		P84
		
23. Stator Thermistors/Ohms	N/A	
24. Stator Overloads/Ohms	N/A	
Mechanical Inspection		



26. Drive End Bearing Number-	6316
27. Drive End Bearing Qty.	1
28. Drive End Bearing Type	(Ball) Ball Bearing
29. Drive End Lubrication Type	(Grease) Grease Lubricated
30. Drive End Bearing Insulation or Grounding Device?	None
31. Drive End Wavy Washer/Snap-Ring Other Retention Device?	None
32. Drive End Bearing Condition	Normal wear



34. Opposite Drive End Bearing Number-	6313
35. Opposite Drive End Bearing Qty.	1

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36. Opposite Drive End Bearing Type	(Ball) Ball Bearing	
37. Opposite Drive End Lubrication Type	(Grease) Grease Lubricated	
38. Opposite Drive End Bearing Insulation or Grounding Device?	None	
39. Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?	Wavy Washer	
40. Opposite Drive End Bearing Condition	Normal wear	P118



41. Drive End Seal		P120
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42. Opposite Drive End Seal	65 85 10	P123
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Rotor Inspection		
43. Rotor Type/Material	(Squirrel Aluminum) Squirrel Cage Aluminum Die Cast	
44. Growler Test	(Pass) Pass	

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45. Number of Rotor Bars

38

46. Rotor Condition

Pass

P41



47. List the Parts needed for the Repair Below

6316

6313

M20 lifting eye

65 85 10 seal

48. Signature of Technician that Disassembled Motor

Brandon Woodard

Mechanical Fits- Rotor

49. Shaft Runout

0.002 inches

50. Rotor Runout

Drive End Bearing Fit

Rotor Body

Opposite Drive End Bearing

0.001

0.001

0.001

51. Coupling Fit Closest to Bearing Housing

0 Degrees

90 Degrees

120 Degrees

2.375

2.375

2.375

52. Coupling Fit Closest to the end of the Shaft

0 Degrees

60 Degrees

120 Degrees

2.375

2.375

2.375

53. Drive End Bearing Shaft Fit

0 Degrees	60 Degrees	120 Degrees
3.1502	3.1502	3.1502

Tolerance is 3.1497-3.1502



54. Drive End Bearing Shaft Fit Condition

(P) Pass

55. Opposite Drive End Bearing Shaft Fit

P89

0 Degrees	60 Degrees	120 Degrees
2.5598	2.5597	2.5597

Tolerance is 2.5592-2.5597



56. Opposite Drive End Bearing Shaft Fit Condition

(P) Pass

57. Shaft Air Seal Fits

Drive End Air Seal	Opposite Drive End Air Seal
Pass	Pass

Mechanical Fits- Bearing Housings



58. Drive End - Endbell Bearing Fit

0 Degrees

60 Degrees

120 Degrees

6.6952

6.6952

6.6953

☐ *Tolerance is 6.6929-6.6939. Out of tolerance and requires bore and bushing.*



● 59. Drive End - Endbell Bearing Fit Condition

(F) Fail

60. Opposite Drive End - Endbell Bearing Fit

P30

0 Degrees

60 Degrees

120 Degrees

5.5141

5.514

5.5139

☐ *Tolerance is 5.5118-5.5128. Out of tolerance and requires bore and bushing.*



● 61. Opposite Drive End - Endbell Bearing Fit Condition

(NA) Not Applicable

62. Bearing Cap Condition

Drive End Bearing Cap

Opposite Drive End Bearing Cap

Pass

Pass

63. End Bell Air Seal Fits

Drive End Air Seal

Opposite Drive End Air Seal

N/A

N/A

64. List Machine Work Needed Below

*Bore and bush both end bells.**Weld turn and cut new key in drive end of shaft.*

65. Technician

Brandon Woodard



Root Cause of Failure

66. Failure locations

None

67. Root cause of failure

None