



AC Inspection as Found

Baptist Medical Center (10043)

3333 Springhill Drive
North Little Rock, AR 72116

FolderID: 103978
FormID: 23037007

AC Inspection - Rev. 2

Location: LR MOTOR SHOP

Serial Number: Z0108030063

Description: 100 HP BALDOR

Hi-Speed Job Number: 103978

Manufacturer: Baldor

Product Number: EM2555T-4

Serial Number: Z0108030063

HP/kW: 100 (HP)

RPM: 1780 (RPM)

Frame: 404T

Voltage: 460

Current: 115 (Amps)

Phase: Three

Hz: 60 (Hz)

Service Factor: 1.15

Enclosure: ODP

of Leads: 6

J-box Included: None

Coupling/Sheave: None

Date Received: 01/27/2025

Bearing RTDs: No

Stator RTDs: No

Repair Stage: Final

Rewind: Yes



Shaft Machined Fit Repairs
Required: No

Bearing Housing Machined
Fit Repairs Required: Yes

Heaters: No

Winding Type : Random Wound

Bearing Type: Rolling Element

Priorities Found:  1 - High  8 - Good

Overall Condition



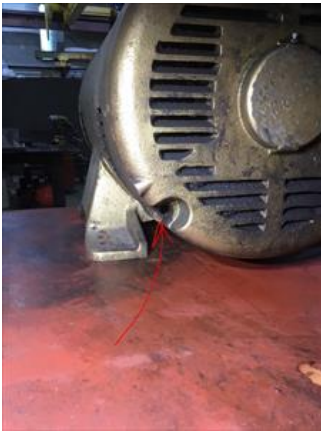
1. Report Date

01/27/2025



3. Photos of all six sides of the machine.





Missing mount bolt





4. Describe the Overall Condition of the Equipment as Received
Serviceable

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?	(No) No
8.	Assembled Shaft Runout	0.001 Inches
9.	Assembled Shaft End Play	0 inches
10.	Air Gap Variation <10%	good

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12. Lead Length **16 Inches**

13. Does it have Lugs?, If so what is the Stud Size? **(No) No**

14. Lead Numbers **1-6**

15. Frame Condition **pass**

16. Fan Condition

17. Broken or Missing Components **missing end bell mount bolt**

Initial Electrical Inspection



18. Insulation Resistance/Megger **Megohms**

P8



19. Winding Resistance

1-2

1-3

2-3

20. Perform Surge Test

21. Number of Stator Slots **48**

22. Stator Condition

rewind

P84

Shorted in slots



23. Stator Thermistors/Ohms

24. Stator Overloads/Ohms

Mechanical Inspection



25. Drive End Bearing Brand

Nachi

P12



26. Drive End Bearing Number-

6316 NSL

P32



27. Drive End Bearing Qty.

1

28. Drive End Bearing Type

(Ball) Ball Bearing

P51

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Frosting

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?	bearing cap	P77



32. Drive End Bearing Condition	replace	
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33. Opposite Drive End Bearing Brand

SKF

P92



34. Opposite Drive End Bearing Number-

6312-2Z/C3GJN

P99



35. Opposite Drive End Bearing Qty.

1

36. Opposite Drive End Bearing Type

(Ball) Ball Bearing

P106



Frosting

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

replace

41. Drive End Seal

none

42. Opposite Drive End Seal

none

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Rotor Inspection



43. Rotor Type/Material

(Squirrel Aluminum) Squirrel
Cage Aluminum Die Cast

P3



44. Growler Test (Pass) Pass

45. Number of Rotor Bars 40

46. Rotor Condition pass

47. List the Parts needed for the Repair Below
None

48. Signature of Technician that Disassembled Motor Terrence Holland

Mechanical Fits- Rotor

49. Shaft Runout 0.001 inches

50. Rotor Runout

Drive End Bearing Fit

Rotor Body

Opposite Drive End Bearing

51. Coupling Fit Closest to Bearing Housing

0 Degrees

90 Degrees

120 Degrees

52. Coupling Fit Closest to the end of the Shaft

0 Degrees

60 Degrees

120 Degrees

53. Drive End Bearing Shaft Fit

0 Degrees

60 Degrees

120 Degrees

3.1497

3.1496

3.1496

54. Drive End Bearing Shaft Fit Condition (P) Pass

55. Opposite Drive End Bearing Shaft Fit

0 Degrees

60 Degrees




120 Degrees

2.3628

2.3629

2.3628

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		P2
	0 Degrees	60 Degrees	120 Degrees
	<div>Bad. Excessive wear.</div> <div></div>		
59.	Drive End - Endbell Bearing Fit Condition		(F) Fail
	<div>Excessive wear and pitting</div>		
60.	Opposite Drive End - Endbell Bearing Fit		
	0 Degrees	60 Degrees	120 Degrees
	5.1182	5.1181	5.1181
61.	Opposite Drive End - Endbell Bearing Fit Condition		(P) Pass
62.	Bearing Cap Condition		
	Drive End Bearing Cap	Opposite Drive End Bearing Cap	
	fail	na	
	<div>Cracked</div> <div><div></div><div></div></div>		
63.	End Bell Air Seal Fits		
	Drive End Air Seal	Opposite Drive End Air Seal	
64.	List Machine Work Needed Below		

Repair cracked DE bearing cap
Re-sleeve DE housing fit



65. Technician

Terrence Holland

[Handwritten signature of Terrence Holland]

Co sign RRW

Root Cause of Failure



66. Failure locations

*Windings in slot.
D.E bearing cap cracked
Sleeve D.E housing fit
Both bearings show frosting. Aegis measurement 3.7364*

67. Root cause of failure

Stator windings shorted between slots.

P18



Dynamic Balance Report

68. Rotor Weight and Balance Grade

Rotor Weight

Balance Grade

69. Initial Balance Readings

Drive End

Opposite Drive End

70.	Final Balance Readings		
	Drive End	Opposite Drive End	
71.	Technician		
Rewind			
72.	Core Test Results - Watts loss per Pound		
	Pre-Burnout	Post Burnout	
73.	Core Hot Spot Test		
	Pre-Burnout	Post-Burnout	
74.	Post Rewind Electrical Test- Insulation Resistance		
75.	Post Rewind Polarization Index		
76.	Post Rewind Winding Resistance		
	1-2	1-3	2-3
77.	Post Rewind Surge Test		
78.	Post Rewind Hi-Pot		
79.	Technician		
Mechanical Fits- Bearing Housings - Post Repair			
80.	Drive End - Endbell Bearing Fit Post Repair		
	0 Degrees	60 Degrees	120 Degrees
81.	Opposite Drive End - Endbell Bearing Fit Post Repair		
	0 Degrees	60 Degrees	120 Degrees
82.	Bearing Cap Condition Post Repair		
	Drive End Bearing Cap	Opposite Drive End Bearing Cap	
83.	End Bell Air Seal Fits Post Repair		
	Drive End Air Seal	Opposite Drive End Air Seal	
84.	End Bell Repair Sign-off		
Assembly			
85.	QC Check All Parts for Cleanliness Prior to 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

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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.	Document Final Condition with Pictures after paint		
98.	Final Pics and QC Review		