



AC Recondition As Found
Baptist Health Medical Center
P.O. Box 8516
Little Rock, AR 72215

FolderID: 100507
FormID: 14967049

AC Recondition - Rev. 2

Location: MOTOR SHOP LR
Serial Number: 0990910
Description: 50HP BALDOR 1800RPM 326T

Hi-Speed Job Number: 100507
Manufacturer: Baldor
Product Number: M2534T
Spec/ID #: 40H005W951H1
Serial Number: 0990910
HP/kW: 50 (HP)
RPM: 1765 (RPM)
Frame: 326T
Voltage: 230 / 460
Current: 124/62
Phase: Three
Hz: 60 (Hz)
Service Factor: 1.15
Enclosure: ODP
J-box Included: Complete
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 ● 5 - Good

Overall Condition



1. Report Date
2. Nameplate Picture

P21



3. Photos of all six sides of the machine.

P27

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4. Describe the Overall Condition of the Equipment as Received
Serviceable but two broken baffles.

Initial Mechanical/Electrical



5. Does Shaft Turn Freely? (Yes) Yes

6. Does Shaft Have Visible Damage?	(No) No	P12
		
7. Assembled Shaft Runout	Inches	
8. Assembled Shaft End Play		
9. Air Gap Variation <10%		
10. Lead Condition		P32
		
11. Lead Length	4.5 Inches	
12. Frame Condition	pass	P51
		
13. Fan Condition	(N) NA	
14. Broken or Missing Components		
Initial Electrical Inspection 		

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16. Winding Resistance

1-2

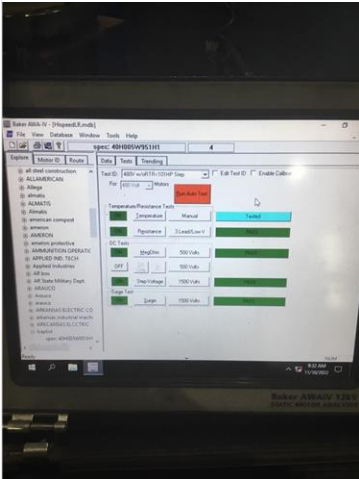
1-3

2-3

17. Perform Surge Test

(P) Pass

P35



18. Number of Stator Slots

19. Stator Condition

P39



Mechanical Inspection



20. Drive End Bearing Brand

21. Drive End Bearing Number-

6312 C3

P8



22. Drive End Bearing Qty.

1

23. Drive End Bearing Type

(Ball) Ball Bearing

P20



24. Drive End Lubrication Type

(Grease) Grease Lubricated

P26



25.	Drive End Bearing Insulation or Grounding Device?	none	
26.	Drive End Wavy Washer/Snap-Ring Other Retention Device?	none	
27.	Drive End Bearing Condition	replace	
28.	Opposite Drive End Bearing Brand		
29.	Opposite Drive End Bearing Number-	6309	
30.	Opposite Drive End Bearing Qty.	1	P47

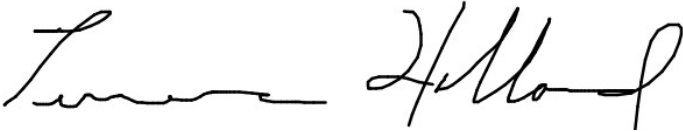


31.	Opposite Drive End Bearing Type	(Ball) Ball Bearing	
32.	Opposite Drive End Lubrication Type	(Grease) Grease Lubricated	
33.	Opposite Drive End Bearing Insulation or Grounding Device?	none	
34.	Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?	yes	
35.	Opposite Drive End Bearing Condition	replace	

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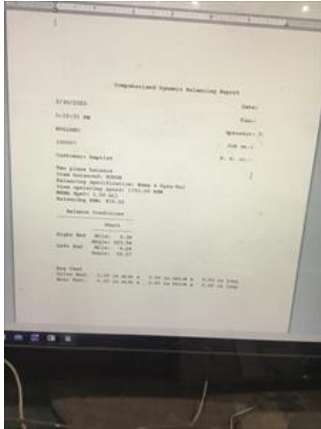
36.	Drive End Seal	none
37.	Opposite Drive End Seal	none
Rotor Inspection		
38.	Rotor Type/Material	(Squirrel Aluminum) Squirrel Cage Aluminum Die Cast P3
		
39.	Growler Test	(Pass) Pass
40.	Number of Rotor Bars	
41.	Rotor Condition	pass
42.	List the Parts needed for the Repair Below	
	<i>Replace both bearings and both end bell baffles. D.E housing fit bad.</i>	
43.	Signature of Technician that Disassembled Motor	Terrence Holland
		
Mechanical Fits- Rotor		
44.	Shaft Runout	0.002 inches
45.	Rotor Runout	
	Drive End Bearing Fit	Rotor Body
		Opposite Drive End Bearing
46.	Coupling Fit Closest to Bearing Housing	
	0 Degrees	90 Degrees
		120 Degrees
47.	Coupling Fit Closest to the end of the Shaft	
	0 Degrees	60 Degrees
		120 Degrees
48.	Drive End Bearing Shaft Fit	
	0 Degrees	60 Degrees
		120 Degrees
	2.3628	2.3629
		2.3628
49.	Drive End Bearing Shaft Fit Condition	(P) Pass
50.	Opposite Drive End Bearing Shaft Fit	
	0 Degrees	60 Degrees
		120 Degrees
	1.772	1.772
		1.772
51.	Opposite Drive End Bearing Shaft Fit Condition	(P) Pass

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52.	Shaft Air Seal Fits		
	Drive End Air Seal	Opposite Drive End Air Seal	
Mechanical Fits- Bearing Housings			
53.	Drive End - Endbell Bearing Fit		
	0 Degrees	60 Degrees	120 Degrees
	5.1203	5.1202	
54.	Drive End - Endbell Bearing Fit Condition		(F) Fail
55.	Opposite Drive End - Endbell Bearing Fit		
	0 Degrees	60 Degrees	120 Degrees
	3.9379	3.9378	3.9378
56.	Opposite Drive End - Endbell Bearing Fit Condition		(P) Pass
57.	Bearing Cap Condition		
	Drive End Bearing Cap	Opposite Drive End Bearing Cap	
58.	End Bell Air Seal Fits		
	Drive End Air Seal	Opposite Drive End Air Seal	
59.	List Machine Work Needed Below <i>Sleeve D.E. Housing fit.</i>		
60.	Technician		Terrence Holland
			
Dynamic Balance Report			
61.	Rotor Weight and Balance Grade		
	Rotor Weight	Balance Grade	
62.	Initial Balance Readings		
	Drive End	Opposite Drive End	

Drive End

Opposite Drive End



64. Technician

Rewind

65. Core Test Results - Watts loss per Pound

Pre-Burnout

Post Burnout

66. Core Hot Spot Test

Pre-Burnout

Post-Burnout

67. Post Rewind Electrical Test- Insulation Resistance

68. Post Rewind Polarization Index

69. Post Rewind Winding Resistance

1-2

1-3

2-3

70. Post Rewind Surge Test

71. Post Rewind Hi-Pot

72. Technician

Root Cause of Failure

73. Failure locations

D.E. Housing fit out of tolerance. Replace both end bell baffles.

74. Root cause of failure

Mechanical Fits- Rotor - Post Repair

75. Shaft Runout Post Repair

76. Rotor Runout Post Repair

Drive End Bearing Fit

Rotor Body

Opposite Drive End Bearing

77. Coupling Fit Closest to Bearing Housing Post Repair

0 Degrees

90 Degrees

120 Degrees

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

0 Degrees

60 Degrees

120 Degrees

79.	Drive End Bearing Shaft Fit Post Repair		
	0 Degrees	60 Degrees	120 Degrees
80.	Opposite Drive End Bearing Shaft Fit Post Repair		
	0 Degrees	60 Degrees	120 Degrees
81.	Shaft Air Seal Fits Post Repair		
	Drive End Air Seal	Opposite Drive End Air Seal	
82.	Shaft Repair Sign-off		
Mechanical Fits- Bearing Housings - Post Repair			
83.	Drive End - Endbell Bearing Fit Post Repair		
	0 Degrees	60 Degrees	120 Degrees
84.	Opposite Drive End - Endbell Bearing Fit Post Repair		
	0 Degrees	60 Degrees	120 Degrees
85.	Bearing Cap Condition Post Repair		
	Drive End Bearing Cap	Opposite Drive End Bearing Cap	
86.	End Bell Air Seal Fits Post Repair		
	Drive End Air Seal	Opposite Drive End Air Seal	
87.	End Bell Repair Sign-off		
Assembly			
88.	QC Check All Parts for Cleanliness Prior to Assembly		
89.	Photograph All Major Components prior to assembly		
90.	Final Insulation Resistance Test		
91.	Assembled Shaft Endplay		
92.	Assembled Shaft Runout		
93.	Test Run Voltage		
	Volts	Volts	Volts
94.	Test Run Amperage		
	Amps	Amps	Amps
95.	Drive End Vibration Readings - Inches Per Second		
	Horizontal	Vertical	Axial
96.	Opposite Drive End Vibration Readings - Inches Per Second		
	Horizontal	Vertical	Axial
97.	Ambient Temperature - Fahrenheit		
98.	Drive End Bearing Temps - Fahrenheit		
	5 Minutes	10 Minutes	15 Minutes

99. Opposite Drive End Bearing Temps - Fahrenheit			
5 Minutes	10 Minutes	15 Minutes	
100. Document Final Condition with Pictures after paint			
101. Final Pics and QC Review		Terrence Holland	P2400
			

