

LR Motor Shop Repairs

Job Number 104377

Prepared for Baptist Medical Center (10043)

3333 Springhill Drive North Little Rock AR 72116

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AC Inspection as Found - LR MOTOR SHOP

AC Inspection - Rev. 2: 060703008

1.0





AC Inspection as Found Baptist Medical Center (10043)

3333 Springhill Drive North Little Rock, AR 72116

FolderID: 104377 FormID: 23912397

AC Inspection - Rev. 2

Location: LR MOTOR SHOP Serial Number: 060703008

Description: 20 HP TOSHIBA

Hi-Speed Job Number:	104377
Manufacturer:	Toshiba
Product Number:	604020L1FFFRTD01
Serial Number:	060703008
HP/kW:	20 (HP)
RPM:	1170 (RPM)
Frame:	286TCG
Voltage:	460
Phase:	Three
Hz:	60 (Hz)
Service Factor:	1.15
Enclosure:	TENV
# of Leads:	3
J-box Included:	None
Coupling/Sheave:	None
Bearing RTDs:	No
Stator RTDs:	No
Repair Stage:	Final
Rewind:	No
Shaft Machined Fit Repairs Required:	No
Bearing Housing Machined Fit Repairs Required:	No
Heaters:	No
Winding Type :	Random Wound
Bearing Type:	Rolling Element

Priorities Found: 1 - High





13 - Good

Overall Condition

1. Report Date 04/01/2025

2. Nameplate Picture





3. Photos of all six sides of the machine.



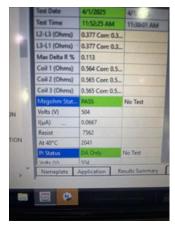


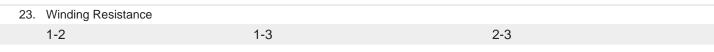


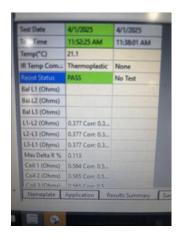


	Describe the Overall Condition of the Equipment as Received Serviceable		
	5.	Is this a UL Listed Motor	(No) No
	6.	Is the motor water cooled or can be pressure checked before teardown	(No) No
In	Initial Mechanical/Electrical		
	7.	Does Shaft Turn Freely?	(Y) Yes
	8.	Does the shaft require T.I.R in Lathe to identify additional repairs?	(No) No

9.	Does Shaft Have Visible Damage?	(No) No
	G .	
10.	Assembled Shaft Runout	0.002 Inches
11.	Assembled Shaft End Play	inches
12.	Air Gap Variation <10%	
1 3.	Lead Condition	(P) Pass
14.	Lead Length	29 Inches
1 5.	Does it have Lugs?, If so what is the Stud Size?	(No) No
16.	Lead Numbers	1-2-3
17.	Frame Condition	good
18.	Fan Condition	(N) NA
1 9.	Does motor have internal fan?	(No) No
20.	Broken or Missing Components	none
2 1.	Are the Leads insulated with Chico or other material	(No) No
Initia	I Electrical Inspection	
22.	Insulation Resistance/Megger	Megohms







24. Perform Surge Test (P) Pass



25. Number of Stator Slots

26. Stator Condition dirty grease



27.	Stator Thermistors/Ohms	
28.	Stator Overloads/Ohms	
Mecha	anical Inspection	
29.	Drive End Bearing Brand	logo
30.	Drive End Bearing Number-	6310
31.	Drive End Bearing Qty.	1
32.	Drive End Bearing Type	(Ball) Ball Bearing
33.	Drive End Lubrication Type	(Grease) Grease Lubricated
34.	Drive End Bearing Insulation or Grounding Device?	none
35.	Drive End Wavy Washer/Snap-Ring Other Retention Device?	no







37. Opposite Drive End Bearing Brand	logo
38. Opposite Drive End Bearing Number-	6310
39. Opposite Drive End Bearing Qty.	1
40. Opposite Drive End Bearing Type	(Ball) Ball Bearing
41. Opposite Drive End Lubrication Type	(Grease) Grease Lubricated
42. Opposite Drive End Bearing Insulation or Grounding Device?	no
43. Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?	wavy washer
44. Opposite Drive End Bearing Condition	fluting





45. Drive End Seal plunger

46.	Opposite Drive End Seal		no
Rotor	Inspection		
47.	Rotor Type/Material		(Squirrel Aluminum) Squirrel Cage Aluminum Die Cast
48.	Growler Test		(Pass) Pass
49.	Number of Rotor Bars		41
50.	Rotor Condition		good
51.	List the Parts needed for the Repair B	elow	
	2-6310ZZC3		
52.	Signature of Technician that Disassen	nbled Motor	
Mecha	anical Fits- Rotor		
53.	Shaft Runout		inches
54.	Rotor Runout		
	Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing
55.	3		
	0 Degrees	90 Degrees	120 Degrees
	Coupling Fit Classet to the send of the	Cha#	
56.	3		400 Dames
	0 Degrees	60 Degrees	120 Degrees
57.	Drive End Bearing Shaft Fit		
	0 Degrees	60 Degrees	120 Degrees
	1.969	1.9689	1.969
58.	Drive End Bearing Shaft Fit Condition		(P) Pass
59.			,
	0 Degrees	60 Degrees	120 Degrees
	1.969	1.9689	1.969
60.	Opposite Drive End Bearing Shaft Fit	Condition	(P) Pass
61.	Shaft Air Seal Fits		. ,
	Drive End Air Seal	Opposite Drive End Air Seal	
	pass		
Mecha	anical Fits- Bearing Housings		
	Drive End - Endbell Bearing Fit		
	0 Degrees	60 Degrees	120 Degrees
	4.3307	4.3308	4.3308
63.	Drive End - Endbell Bearing Fit Condi		(P) Pass
64.			, , , ,
	0 Degrees	60 Degrees	120 Degrees
	4.3307	4.3307	4.3308
65.			(P) Pass
	Bearing Cap Condition		(1)1000
- 4.	Drive End Bearing Cap	Opposite Drive End Bearing Cap	
	good		
67.	End Bell Air Seal Fits		
	Drive End Air Seal	Opposite Drive End Air Seal	
00	Liet Mechine West Novel Del		
68.	List Machine Work Needed Below		

69. Technician

Root Cause of Failure

- 70. Failure locations
- 71. Root cause of failure

 Bearing shaft current, fluting

Dynamic Balance Report

72. Rotor Weight and Balance Grade

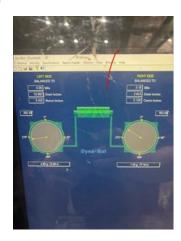
Rotor Weight Balance Grade

Na

73. Initial Balance Readings

Drive End Opposite Drive End

0.06 0.18



adings
ί

Drive End Opposite Drive End

0.06 0.1

75. Technician

Assembly

76. QC Check All Parts for Cleanliness Prior to Assembly

RW

77. Photograph All Major Components prior to assembly























78. Final Insulation Resistance Test

12,330 Megohms



79.	Assembled Shaft Endplay			0 inches
80.	Assembled Shaft Runout			inches
-	.0002			
81.	Test Run Voltage			
	Volts	Volts	Volts	
	462	460	461	



82. Test Run Amperage		
Amps	Amps	Amps
9.4	9.4	9.3000000000001



83.	B. Drive End Vibration Readings - Inches Per Second		
	Horizontal	Vertical	Axial
	0.03	0.02	0.01
84.	Opposite Drive End Vibration Reading	gs - Inches Per Second	
	Horizontal	Vertical	Axial
	0.04	0.03	0.02
85.	5. Ambient Temperature - Fahrenheit		
86.	6. Drive End Bearing Temps - Fahrenheit		
	5 Minutes	10 Minutes	15 Minutes
87.	7. Opposite Drive End Bearing Temps - Fahrenheit		
	5 Minutes	10 Minutes	15 Minutes
88.	38. Document Final Condition with Pictures after paint		









89. Final Pics and QC Review

RW

Co sign CRW



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