

# LR Motor Shop Repairs

# **Job Number 103565**

Prepared for Georges Inc

1810 S. St. Louis Street Batesville AR 72501

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AC Inspection as Found - Shop

AC Inspection - Rev. 2: 15090200383

1.0





## **AC Inspection as Found**

Georges Inc

1810 S. St. Louis Street Batesville, AR 72501

FolderID: 103565 FormID: 21755362

AC	Inspec	tion -	Rev. 2	
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Location:

Shop

Serial Number:

15090200383

Description: 60HP TOSHIBA

Hi-Speed Job Number:	103565
Manufacturer:	Toshiba
Product Number:	M: 0604SDSR41A-P
Serial Number:	15090200383
HP/kW:	60 (HP)
RPM:	1775 (RPM)
Frame:	364T
Voltage:	230 / 460
Current:	138/69 (Amps)
Phase:	Three
Hz:	60 (Hz)
Service Factor:	1.15
Enclosure:	TEFC
# of Leads:	12
J-box Included:	Complete
Coupling/Sheave:	None
Bearing RTDs:	No
Stator RTDs:	No
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
10 - Good	

Priorities Found: 4 - High





1 - Low

10 - Good

#### **Overall Condition**

1. Report Date 10/01/2024

#### 2. Nameplate Picture



3. Photos of all six sides of the machine.































	4.	Describe the Overall Condition of the Equipment as Received  Dirty	
	5.	Report Date [COPY]	
In	itial	Mechanical/Electrical	
	6.	Does Shaft Turn Freely?	(Y) Yes
	7.	Does the shaft require T.I.R in Lathe to identify additional repairs?	(No) No
	8.	Does Shaft Have Visible Damage?	(No) No
	9.	Assembled Shaft Runout	Inches
	10.	Assembled Shaft End Play	inches

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11.	Air Gap Variation <10%	
12.	Lead Condition	(P) Pass
13.	Lead Length	12 Inches
14.	Does it have Lugs?, If so what is the Stud Size?	(No) No
15.	Lead Numbers	1-12
16.	Frame Condition	
17.	Fan Condition	(F) Fail



18. Broken or Missing Components

fan is broke and j-box is missing bolts

2-3

#### **Initial Electrical Inspection**

19. Insulation Resistance/Megger

Megohms

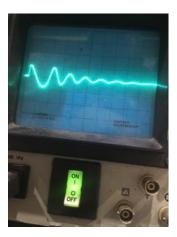


20. Winding Resistance

1-2

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#### 21. Perform Surge Test



22.	Number of Stator Slots	48
23.	Stator Condition	pass
24.	Stator Thermistors/Ohms	
25.	Stator Overloads/Ohms	
Mech	anical Inspection	
26.	Drive End Bearing Brand	C&U



### 27. Drive End Lubrication Type

Contamination and mixed grease

(Grease) Grease Lubricated

(P) Pass



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- 28. Drive End Bearing Insulation or Grounding Device?
- 29. Drive End Wavy Washer/Snap-Ring Other Retention Device?
- 30. Drive End Bearing Condition
- Contamination



31. Opposite Drive End Bearing Brand

C&U

32. Opposite Drive End Lubrication Type

(Grease) Grease Lubricated

Contamination and mixed grease



- 33. Opposite Drive End Bearing Insulation or Grounding Device?
- 34. Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?

wavy washer

- 35. Opposite Drive End Bearing Condition
- Contamination



36.	Drive End Seal	slinger
-	Dry rotted	
37.	Opposite Drive End Seal	
38.	Drive End Bearing Number-	6314
39.	Drive End Bearing Qty.	1
40.	Drive End Bearing Type	(Ball) Ball Bearing
41.	Opposite Drive End Bearing Number-	6312
42.	Opposite Drive End Bearing Qty.	1
43.	Opposite Drive End Bearing Type	(Ball) Ball Bearing
Rotor	Inspection	
44.	Rotor Type/Material	(Squirrel Aluminum) Squirrel Cage Aluminum Die Cast
45.	Growler Test	(Pass) Pass
46.	Number of Rotor Bars	40
47.	Rotor Condition	pass
48.	List the Parts needed for the Repair Below	
	6314 6312	
49.	Signature of Technician that Disassembled Motor	Cw

Chris

Mechanical Fits- Rotor				
50. Shaft Runout		inches		
51. Rotor Runout				
Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing		
52. Coupling Fit Closest to Bearin				
0 Degrees	90 Degrees	120 Degrees		
53. Coupling Fit Closest to the end	3. Coupling Fit Closest to the end of the Shaft			
0 Degrees	60 Degrees	120 Degrees		

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	ΕΛ	Drive End Bearing Chaft Fit			
	54.	Drive End Bearing Shaft Fit	00 D	400 D	
		0 Degrees	60 Degrees	120 Degrees	
		2.7561	2.7561	2.7561	(D) D
	55.	9			(P) Pass
	56.	Opposite Drive End Bearing Shaft Fit			
		0 Degrees	60 Degrees	120 Degrees	
		2.3626	2.3626	2.3626	
	57.	-     -   -   -   -   -   -   -   -   -	Condition		(P) Pass
	58.	Shaft Air Seal Fits			
		Drive End Air Seal	Opposite Drive End Air Seal		
_					
IV		anical Fits- Bearing Housings			
	59.	Drive End - Endbell Bearing Fit			
		0 Degrees	60 Degrees	120 Degrees	
		5.9063	5.9061	5.9062	
	01.	Technician .			Cw
	•	Co sign: RRW			(D) D
	62.	Drive End - Endbell Bearing Fit Condit			(P) Pass
	63.	11		100 5	
		0 Degrees	60 Degrees	120 Degrees	
		5.1187	5.1186	5.1187	(5) 5
	64.	11	Fit Condition		(P) Pass
	65.	Bearing Cap Condition	0 , 5, 5, 5		
		Drive End Bearing Cap	Opposite Drive End Bearing Cap		
	66.	End Bell Air Seal Fits			
		Drive End Air Seal	Opposite Drive End Air Seal		
		21170 211a 7111 Goal	opposite 2 ive 2 ive 7 iii eeai		
R	oot (	Cause of Failure			
	67.	Failure locations			
		Bearings			
	68.	Root cause of failure			
		Contamination			
D	Dynamic Balance Report				
		-			
	69.	Rotor Weight and Balance Grade			
	69.		Balance Grade		
	69.	Rotor Weight and Balance Grade  Rotor Weight	Balance Grade		
		Rotor Weight	Balance Grade		
		Rotor Weight	Balance Grade  Opposite Drive End		

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71.	Final Balance Readings			
	Drive End	Opposite Drive End		
	Technician			
Assen	•			
	QC Check All Parts for Cleanliness Prior to Assembly			
	Photograph All Major Components price	or to assembly		
75.	Final Insulation Resistance Test			
76.	Assembled Shaft Endplay			
77.	Assembled Shaft Runout			
78.	Test Run Voltage			
	Volts	Volts	Volts	
79.	Test Run Amperage			
	Amps	Amps	Amps	
90	Drive End Vibration Readings - Inches	- Par Sacand		
80.	Horizontal	Vertical	Axial	
	Horizoniai	vertical	Axidi	
81.	Opposite Drive End Vibration Readings - Inches Per Second			
	Horizontal	Vertical	Axial	
	. Ambient Temperature - Fahrenheit			
83.	Drive End Bearing Temps - Fahrenhei			
	5 Minutes	10 Minutes	15 Minutes	
0.4				
84.	Opposite Drive End Bearing Temps - I		45.04	
	5 Minutes	10 Minutes	15 Minutes	
85	Document Final Condition with Picture	es after naint		
	Final Pics and QC Review	o anoi paint		
OU. THIRD TOO AND GO INCOME				

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