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## LR Motor Shop Repairs

## **Job Number 100692**

Prepared for Twin Rivers (12049)

1701 Jefferson Parkway White Hall AR 71602

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AC Recondition As Found - Shop

AC Recondition - Rev. 2: 3382

1.0



FolderID: 100692

FormID: 15520229



#### **AC Recondition As Found**

Twin Rivers (12049)

1701 Jefferson Parkway White Hall, AR 71602

Location:

AC Recondition - Rev. 2

Serial Number: 3382

Description: 25HP US MOTORS AERATOR

Shop

1200RPM 324ZLPH

Hi-Speed Job Number:	100692
Manufacturer:	US Motors/Nidec
Product Number:	20706013-100
Spec/ID #:	3382
Serial Number:	C 04 20706013-0001 M 0002
HP/kW:	25 (HP)
RPM:	1190 (RPM)
Frame:	324ZLPH
Voltage:	230 / 460
Current:	62/31
Phase:	Three
Hz:	60 (Hz)
Service Factor:	1.15
Enclosure:	TEFC
J-box Included:	Complete
Coupling/Sheave:	Propeller
Bearing RTDs:	No
Stator RTDs:	No
Repair Stage:	Teardown Inspection
Heaters:	No
Winding Type :	Random Wound
Bearing Type:	Rolling Element

Priorities Found: 5 - High



6 - Good

#### **Overall Condition**

1. Report Date

2. Nameplate Picture



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#### 3. Photos of all six sides of the machine.



























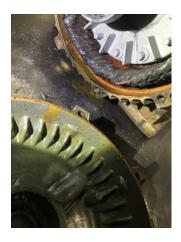






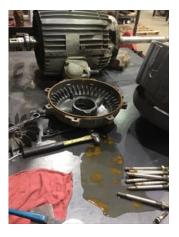


















4.	Describe the Overall Condition of the Equipment as Received  Dirty		
5.	Distance from the end of the shaft to the Coupling/Sheave		
	Mechanical/Electrical		
6.	Does Shaft Turn Freely?	(Yes) Yes	
7.	Does Shaft Have Visible Damage?	(No) No	
8.	Assembled Shaft Runout	0.0089999999999999 Inches	
9.			
10.	Air Gap Variation <10%		
11.		(F) Fail	
12.	Lead Length	8 Inches	
13.	Frame Condition	pass	
14.	Fan Condition	(P) Pass	
15.	Broken or Missing Components	na	
Initial	Electrical Inspection		
16.	Insulation Resistance/Megger		
17.	Winding Resistance		
	1-2 1-3	2-3	
18.	Perform Surge Test	(F) Fail	
-	Windings blown		
19.	Number of Stator Slots		
	Stator Condition		
	anical Inspection		
21.	Drive End Bearing Number-	5216	
22.	Drive End Bearing Qty.	1	
23.		(Other) Other	
	Drive End Lubrication Type	(Grease) Grease Lubricated	
	Drive End Bearing Insulation or Grounding Device?	na	
26.	3	lock nut	
27.	Drive End Bearing Condition	contamination	
	Opposite Drive End Bearing Number-	6211	
	Opposite Drive End Bearing Qty.	1	
30.	Opposite Drive End Bearing Type	(Ball) Ball Bearing	
31.	Opposite Drive End Lubrication Type	(Grease) Grease Lubricated	

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	Opposite Drive End Bearing Insulation	-	na	
33.	, ,		na	
	Opposite Drive End Bearing Condition	contamination		
35.			na	
	Opposite Drive End Seal		na	
	Inspection			
37.	Rotor Type/Material		(Squirrel Aluminum) Squirrel Cage Aluminum Die Cast	
38.	Growler Test		(Pass) Pass	
39.	Number of Rotor Bars		40	
40.	Rotor Condition		pass	
41.	List the Parts needed for the Repair B 5216 6211 New shaft bushing	elow		
42.	Signature of Technician that Disasser	nbled Motor	Cw	
	anical Fits- Rotor			
	Shaft Runout			
44.	Rotor Runout			
	Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing	
45.	Coupling Fit Closest to Bearing Housing			
	0 Degrees	90 Degrees	120 Degrees	
46.	Coupling Fit Closest to the end of the			
	0 Degrees	60 Degrees	120 Degrees	
	1 - 1 - 1 - 1 - 1	20 _ 09.000	g	
47.	Drive End Bearing Shaft Fit			
	0 Degrees	60 Degrees	120 Degrees	
48.	<u> </u>		(P) Pass	
49.	Opposite Drive End Bearing Shaft Fit			
	0 Degrees	60 Degrees	120 Degrees	
50.	Opposite Drive End Bearing Shaft Fit Condition		(P) Pass	
51.	Shaft Air Seal Fits			
	Drive End Air Seal	Opposite Drive End Air Seal		
Mach	anical Fits- Bearing Housings			
52.	Drive End - Endbell Bearing Fit	60 Dograda	120 Degrees	
	0 Degrees	60 Degrees	120 Degrees	

53. Drive End - Endbell Bearing Fit Condition

(P) Pass

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	54.	. Opposite Drive End - Endbell Bearing Fit								
		0 Degrees	60 Degrees	120 Degrees						
	55.	Opposite Drive End - Endbell Bearing	Fit Condition		(P) Pass					
	56.	Bearing Cap Condition								
		Drive End Bearing Cap	Opposite Drive End Bearing Cap							
-		Pass								
	57.	End Bell Air Seal Fits								
		Drive End Air Seal	Opposite Drive End Air Seal							
	58.	List Machine Work Needed Below								
		Bushing								
	59.	Technician			Cw					
	1									
Ro	oot (	Cause of Failure								
		Cause of Failure Failure locations								
	60.	Failure locations  Bushing, bearings, and windings								
	60.	Failure locations  Bushing, bearings, and windings								

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- 13. FORCE MAJEURE. Neither party shall be responsible for any delay or failure in performance of any party of the quotation, purchase order or these Standard Terms and Conditions to the extent that such delays or failures are caused by fire, flood, earth quake, explosion, war, embargo, government requirement, civil or military authority, acts of God, or any other circumstances beyond its reasonable control and not involving any fault or negligence on the party affected ("Condition"). If any such Condition occurs, the party delayed or unable to perform shall promptly give written notice to the other party and, if such Condition remains at the end of thirty (30) days, the party affected by the other party's delay and inability to perform may elect to (i) terminate such order or part thereof, or (ii) suspend the order for the duration of the Condition, if the Buyer is the suspending party, buy elsewhere comparable material to be sold under the order and apply to any commitment the purchase price of such purchase, and resume performance of the order once the Condition ceases, with an option in the affected party to extend the period of this order up to the length of the time the Condition endures.
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