

# LR Motor Shop Repairs

## **Job Number 100692**

Prepared for Twin Rivers

1701 Jefferson Parkway White Hall AR 71602

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AC Inspection - Rev. 2: 3382

1.0



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### **AC Inspection as Found**

Twin Rivers

1701 Jefferson Parkway White Hall, AR 71602

AC Inspection - Rev. 2

Location:

MOTOR SHOP LR

Serial Number: 3382

Description: 25HP US MOTORS AERATOR

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:	Final
Heaters:	No
Winding Type :	Random Wound
Bearing Type:	Rolling Element

Priorities Found: 6 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.



















31.	Opposite Drive End Bearing Number-	6211	
30.	Drive End Bearing Condition	contamination	
29.	Drive End Wavy Washer/Snap-Ring Other Retention Device?	lock nut	
28.	Drive End Bearing Insulation or Grounding Device?	na	
27.	Drive End Lubrication Type	(Grease) Grease Lubricated	
26.	Drive End Bearing Type	(Other) Other	
25.	Drive End Bearing Qty.	1	
	Drive End Bearing Number-	5216	
Mecha	anical Inspection		
23.	Stator Overloads/Ohms		
22.	Stator Thermistors/Ohms		
21.	Stator Condition		
20.	Number of Stator Slots		
<b>1</b> 9.	Perform Surge Test Windings blown	(F) Fail	
	1-2 1-3	2-3	
18.	Winding Resistance	0.0	
	Insulation Resistance/Megger	Megohms	
	Electrical Inspection	Manah	
	16. Lead Numbers		
15.		na	
_	Fan Condition	(P) Pass	
	Frame Condition	pass	
12.	3.	8 Inches	
11.	Lead Condition	(F) Fail	
_	Air Gap Variation <10%	,_,	
	,		
8.	Assembled Shaft Runout	0.008999999999999 Inches	
7.	Does Shaft Have Visible Damage?	(No) No	
6.	Does Shaft Turn Freely?	(Yes) Yes	
_	Mechanical/Electrical		
5.	Distance from the end of the shaft to the Coupling/Sheave		
	Dirty		
4.	Describe the Overall Condition of the Equipment as Received		

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	Opposite Drive End Bearing Qty.		1
33.			(Ball) Ball Bearing
34.			(Grease) Grease Lubricated
35.			na
36.			na
37.			contamination
38.	Drive End Seal		na
39.	Opposite Drive End Seal		na
40.	Drive End Bearing Brand		
41.	Opposite Drive End Bearing Brand		
Rotor	Inspection		
42.	Rotor Type/Material		(Squirrel Aluminum) Squirrel Cage Aluminum Die Cast
43.	Growler Test		(Pass) Pass
44.	. Number of Rotor Bars		40
45.	Rotor Condition		pass
46.	List the Parts needed for the Repair Be 5216 6211 New shaft bushing	elow	
	M	_	
Mech	anical Fits- Rotor		
48.	anical Fits- Rotor		
48.	anical Fits- Rotor Shaft Runout	Rotor Body	Opposite Drive End Bearing
48. 49.	anical Fits- Rotor Shaft Runout Rotor Runout Drive End Bearing Fit	· · · · · · · · · · · · · · · · · · ·	Opposite Drive End Bearing
48.	anical Fits- Rotor Shaft Runout Rotor Runout Drive End Bearing Fit Coupling Fit Closest to Bearing Housin	ng	· · ·
48. 49.	anical Fits- Rotor Shaft Runout Rotor Runout Drive End Bearing Fit Coupling Fit Closest to Bearing Housin	· · · · · · · · · · · · · · · · · · ·	Opposite Drive End Bearing 120 Degrees
48. 49.	anical Fits- Rotor Shaft Runout Rotor Runout Drive End Bearing Fit  Coupling Fit Closest to Bearing Housir 0 Degrees	ng 90 Degrees	· · ·
48. 49. 50.	anical Fits- Rotor Shaft Runout Rotor Runout Drive End Bearing Fit  Coupling Fit Closest to Bearing Housir 0 Degrees  Coupling Fit Closest to the end of the S	ng 90 Degrees Shaft	120 Degrees
48. 49. 50.	anical Fits- Rotor Shaft Runout Rotor Runout Drive End Bearing Fit  Coupling Fit Closest to Bearing Housir 0 Degrees	ng 90 Degrees	· · ·
48. 49. 50.	anical Fits- Rotor Shaft Runout Rotor Runout Drive End Bearing Fit  Coupling Fit Closest to Bearing Housir 0 Degrees  Coupling Fit Closest to the end of the S 0 Degrees	ng 90 Degrees Shaft	120 Degrees
48. 49. 50.	anical Fits- Rotor Shaft Runout Rotor Runout Drive End Bearing Fit  Coupling Fit Closest to Bearing Housir 0 Degrees  Coupling Fit Closest to the end of the S 0 Degrees	ng 90 Degrees Shaft	120 Degrees
48. 49. 50.	anical Fits- Rotor Shaft Runout Rotor Runout Drive End Bearing Fit  Coupling Fit Closest to Bearing Housir 0 Degrees  Coupling Fit Closest to the end of the S 0 Degrees  Drive End Bearing Shaft Fit 0 Degrees	ng 90 Degrees Shaft 60 Degrees	120 Degrees 120 Degrees
48. 49. 50. 51.	anical Fits- Rotor Shaft Runout Rotor Runout Drive End Bearing Fit  Coupling Fit Closest to Bearing Housir 0 Degrees  Coupling Fit Closest to the end of the S 0 Degrees  Drive End Bearing Shaft Fit 0 Degrees  Drive End Bearing Shaft Fit Condition	ng 90 Degrees Shaft 60 Degrees	120 Degrees  120 Degrees  120 Degrees
48. 49. 50. 51.	anical Fits- Rotor Shaft Runout Rotor Runout Drive End Bearing Fit  Coupling Fit Closest to Bearing Housir 0 Degrees  Coupling Fit Closest to the end of the S 0 Degrees  Drive End Bearing Shaft Fit 0 Degrees  Drive End Bearing Shaft Fit Condition	ng 90 Degrees Shaft 60 Degrees	120 Degrees  120 Degrees  120 Degrees
48. 49. 50. 51.	anical Fits- Rotor Shaft Runout Rotor Runout Drive End Bearing Fit  Coupling Fit Closest to Bearing Housir 0 Degrees  Coupling Fit Closest to the end of the S 0 Degrees  Drive End Bearing Shaft Fit 0 Degrees  Drive End Bearing Shaft Fit Condition Opposite Drive End Bearing Shaft Fit 0 Degrees	90 Degrees Shaft 60 Degrees 60 Degrees	120 Degrees  120 Degrees  120 Degrees  (P) Pass
48. 49. 50. 51. 52. 53. 54.	anical Fits- Rotor Shaft Runout Rotor Runout Drive End Bearing Fit  Coupling Fit Closest to Bearing Housir 0 Degrees  Coupling Fit Closest to the end of the S 0 Degrees  Drive End Bearing Shaft Fit 0 Degrees  Drive End Bearing Shaft Fit Condition Opposite Drive End Bearing Shaft Fit 0 Degrees	90 Degrees Shaft 60 Degrees 60 Degrees	120 Degrees  120 Degrees  120 Degrees  (P) Pass
48. 49. 50. 51. 52. 53. 54.	anical Fits- Rotor Shaft Runout Rotor Runout Drive End Bearing Fit  Coupling Fit Closest to Bearing Housir 0 Degrees  Coupling Fit Closest to the end of the S 0 Degrees  Drive End Bearing Shaft Fit 0 Degrees  Drive End Bearing Shaft Fit Condition Opposite Drive End Bearing Shaft Fit 0 Degrees  Opposite Drive End Bearing Shaft Fit	90 Degrees Shaft 60 Degrees 60 Degrees	120 Degrees  120 Degrees  120 Degrees  (P) Pass

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<ul><li>58.</li><li>59.</li></ul>	Opposite Drive End - Endbell Bearing  0 Degrees		120 Degrees	(P) Pass
	Opposite Drive End - Endbell Bearing 0 Degrees	Fit		(P) Pass
	Opposite Drive End - Endbell Bearing 0 Degrees	Fit		(P) Pass
59.	0 Degrees			
		60 Degrees		
	Opposite Drive End - Endbell Bearing		120 Degrees	
<b>6</b> 0.		Fit Condition		(P) Pass
_	Bearing Cap Condition			( )
	Drive End Bearing Cap	Opposite Drive End Bearing Cap		
	· .			
-	Pass			
62.				
	Drive End Air Seal	Opposite Drive End Air Seal		
<ul><li>63.</li></ul>	List Machine Work Needed Below			
	Bushing			
64.	Technician			Cw
	,			
	$\langle A/ \rangle$			
Dyna	mic Balance Report			
65.	Rotor Weight and Balance Grade			
	Rotor Weight	Balance Grade		
00	Initial Dalamas Dandings			
66.	Initial Balance Readings  Drive End	Opposite Drive Ford		
	Drive End	Opposite Drive End		
67.	Final Balance Readings			
	Drive End	Opposite Drive End		
	Technician			
Rewi				
69.	Core Test Results - Watts loss per Po			
	Pre-Burnout	Post Burnout		
70.	Core Hot Spot Test			
	Pre-Burnout Pre-Burnout	Post-Burnout		
71.	Post Rewind Electrical Test- Insulation	n Resistance		
72.				
73.				
	1-2	1-3	2-3	
74	Post Rewind Surge Test			
75.	Post Rewind Hi-Pot			
76.	Technician			
72.	Post Rewind Polarization Index Post Rewind Winding Resistance 1-2	n Resistance 1-3	2-3	

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Root Cause of Failure				
77.	77. Failure locations			
	Bushing, bearings, and windings			
78.	Root cause of failure			
	Water contamination and wear			
	lechanical Fits- Rotor - Post Repair			
	Shaft Runout Post Repair			
80.	Rotor Runout Post Repair			
	Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing	
81.	Coupling Fit Closest to Bearing Housi	ng Post Repair		
	0 Degrees	90 Degrees	120 Degrees	
	Ū	•	· ·	
82.	Coupling Fit Closest to the end of the	Shaft Post Repair		
	0 Degrees	60 Degrees	120 Degrees	
02	Drive End Boaring Shoft Eit Boat Bon	nie.		
03.	Drive End Bearing Shaft Fit Post Rep		120 Dograda	
	0 Degrees	60 Degrees	120 Degrees	
84.	Opposite Drive End Bearing Shaft Fit	Post Repair		
	0 Degrees	60 Degrees	120 Degrees	
85.	5. Shaft Air Seal Fits Post Repair			
	Drive End Air Seal	Opposite Drive End Air Seal		
	Shaft Repair Sign-off			
	Mechanical Fits- Bearing Housings - Post Repair			
87.	Drive End - Endbell Bearing Fit Post F			
	0 Degrees	60 Degrees	120 Degrees	
88.	88. Opposite Drive End - Endbell Bearing Fit Post Repair			
	0 Degrees	60 Degrees	120 Degrees	
	9	J	3	
89.	9. Bearing Cap Condition Post Repair			
	Drive End Bearing Cap	Opposite Drive End Bearing Cap		
90.	End Bell Air Seal Fits Post Repair			
	Drive End Air Seal	Opposite Drive End Air Seal		
91.	End Bell Repair Sign-off			
	Assembly			
	QC Check All Parts for Cleanliness Pi	ior to Assembly		

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93.	Photograph All Major Components prior to assembly		
94.	Final Insulation Resistance Test		
95.	Assembled Shaft Endplay		
96.	Assembled Shaft Runout		
97.	Test Run Voltage		
	Volts	Volts	Volts
98.	Test Run Amperage		
	Amps	Amps	Amps
00	Daire Ford Wheating Deadings Inches	Day Carrand	
99.	Drive End Vibration Readings - Inches		
	Horizontal	Vertical	Axial
100	00. Opposite Drive End Vibration Readings - Inches Per Second		
100.	Horizontal	Vertical	Axial
	Honzontal	vertical	ANIAI
101.	01. Ambient Temperature - Fahrenheit		
102.	2. Drive End Bearing Temps - Fahrenheit		
	5 Minutes	10 Minutes	15 Minutes
103.	3. Opposite Drive End Bearing Temps - Fahrenheit		
	5 Minutes	10 Minutes	15 Minutes
	. Document Final Condition with Pictures after paint		
105.	Final Pics and QC Review		



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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.
- 14. <u>NONWAIVER.</u> No course of dealing or failure of either party to strictly enforce any term, right, or condition of these Standard Terms and Conditions will be construed as a waiver of such term, right or condition. Any waiver by Hi-Speed will only be in writing and will waive no succeeding breach of a term, right or condition.
- 15. **ASSIGNMENT.** The rights and obligations of the parties shall neither be assigned nor delegated without the prior written consent of the other party. However, any party may assign or delegate its respective rights and obligations, in whole or in part, (i) to any subsidiary, (ii) pursuant to other financing, merger or reorganization or (iii) pursuant to any sale or transfer of substantially all of the assets of the assigning party. These Standard Terms and Conditions shall bind the heirs, successors and assigns of the parties hereto.
- 16. NO INDIVIDUAL LIABILITY. Notwithstanding any other agreement to the contrary, the Buyer agrees that in no event will the Buyer hold and HI-Speed owner, director, officer or employee personally liable for unintentional tortious conduct or conduct that constitutes the breach of any contract between HI-Speed and the Buyer, even if the HI-Speed owner, director, officer or employee is or could be construed to be a party to such contract.