

# EVERY DAY SINCE 1946

LR Motor Shop Repairs

## Job Number 104428

Prepared for Custom Craft Poultry

3064 E Main St Batesville AR 72501

### Table of Contents

AC Inspection as Found - LR MOTOR SHOP



#### **AC Inspection as Found**

Custom Craft Poultry 3064 E Main St Batesville, AR 72501 FolderID: 104428 FormID: 24057494

AC Inspection -	Rev. 2		Hi-Speed Job Number:	104428
Location:	LR MOTOR S	HOP	Product Number:	PN0AA13A01C
Serial Number:	450346341-27	734003	Serial Number:	450346341-2734003
Description:125 H	HP CENTURY		HP/kW:	125 (HP)
			RPM:	3570 (RPM)
			Frame:	404TS
			Voltage:	230 / 460
			Current:	276/138 (Amps)
			Phase:	Three
			Hz:	60 (Hz)
			Service Factor:	1.15
			Enclosure:	ODP
			# of Leads:	12
			J-box Included:	None
			Coupling/Sheave:	None
			Date Received:	04/14/2025
			Bearing RTDs:	No
			Stator RTDs:	No
			Repair Stage:	Final
			Shaft Machined Fit Repairs Required:	Yes
			Bearing Housing Machined Fit Repairs Required:	Yes
			Heaters:	No
			Winding Type :	Random Wound
			Bearing Type:	Rolling Element
iorities Found: 🔵	3 - High	🔵 10 - Good		
verall Conditi	on			

1. Report Date

04/14/2025

#### 2. Nameplate Picture



3. Photos of all six sides of the machine.























	4.	Describe the Overall Condition of the	Equipment as Received	
		Dirty but serviceable		
	5.	Is this a UL Listed Motor		(No) No
	6.	Is the motor water cooled or can be pr	essure checked before teardown	(No) No
In	itial	Mechanical/Electrical		
	7.	Does Shaft Turn Freely?		(N) No
	8.	Does the shaft require T.I.R in Lathe t	o identify additional repairs?	(No) No
	9.	Does Shaft Have Visible Damage?		(No) No
	10.	Assembled Shaft Runout		Inches
	•	Na		
	11.	Assembled Shaft End Play		inches
		Shaft bent		
	12.	Air Gap Variation <10%		na
	13.	Lead Condition		(P) Pass
	14.	Lead Length		28 Inches
	15.	Does it have Lugs?, If so what is the S	Stud Size?	(No) No
	16.	Lead Numbers		1-12
	17.	Are the Leads insulated with Chico or	other material	(No) No
	18.	Frame Condition		pass
	19.	Fan Condition		(N) NA
	20.	Does motor have internal fan?		(No) No
	21.	Broken or Missing Components		none
In	itial	Electrical Inspection		
	22.	Insulation Resistance/Megger		30 Megohms
	23.	Winding Resistance		
		1-2	1-3	2-3
		0.0475	0.0475	0.0475

24. Perform Surge Test



- 25. Number of Stator Slots
- 26. Stator Condition





27. Stator Thermistors/Ohmsna28. Stator Overloads/OhmsnaMechanical Inspection29. Drive End Bearing Brand30. Drive End Bearing Number-6313C331. Drive End Bearing Qty.132. Drive End Bearing Type(Ball) Ball Bearing33. Drive End Bearing Type(Ball) Ball Bearing34. Drive End Bearing Insulation or Grounding Device?(Grease) Grease Lubricated35. Drive End Bearing Condition137. Opposite Drive End Bearing Brand6313C338. Opposite Drive End Bearing Number-6313C339. Opposite Drive End Bearing Qty.140. Opposite Drive End Bearing Type(Ball) Ball Bearing41. Opposite Drive End Bearing Type(Ball) Ball Bearing42. Opposite Drive End Bearing Type(Ball) Ball Bearing43. Opposite Drive End Bearing Type(Ball) Ball Bearing44. Opposite Drive End Bearing Type(Ball) Ball Bearing43. Opposite Drive End Bearing Type(Grease) Grease Lubricated44. Opposite Drive End Bearing Insulation or Grounding Device?43. Opposite Drive End Bearing Insulation or Grounding Device?43. Opposite Drive End Bearing Insulation or Grounding Device?43. Opposite Drive End Bearing Insulation or Grounding Device?				
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48

needs washed and rechecked

1.4

- 44. Opposite Drive End Bearing Condition
- 45. Drive End Seal
- 46. Opposite Drive End Seal

#### **Rotor Inspection**

47. Rotor Type/Material

#### (Squirrel Aluminum) Squirrel Cage Aluminum Die Cast



10	Growler Test		
48.			
50.	Rotor Condition		
51.			
52.	Signature of Technician that Disasse	mbled Motor	RW
Mecha	anical Fits- Rotor		
53.	Shaft Runout		inches
	Shaft bent		
54.	Rotor Runout		
	Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing
55.	Coupling Fit Closest to Bearing Hous	ing	
	0 Degrees	90 Degrees	120 Degrees
56.	Coupling Fit Closest to the end of the	Shaft	
	0 Degrees	60 Degrees	120 Degrees
57.	5		
	0 Degrees	60 Degrees	120 Degrees
-	Bad		

59.	Opposite Drive End Bearing Shaft Fit			
	0 Degrees	60 Degrees	120 Degrees	
	Pass			
60.	Opposite Drive End Bearing Shaft Fit	Condition		(P) Pass
61.	Shaft Air Seal Fits			
	Drive End Air Seal	Opposite Drive End Air Seal		
	bad	pass		
lecha	anical Fits- Bearing Housings			
62.	Drive End - Endbell Bearing Fit			
	0 Degrees	60 Degrees	120 Degrees	
_	Resleeve			
63.		ition		(P) Pass
	Opposite Drive End - Endbell Bearing			(1) 1035
04.	0 Degrees	60 Degrees	120 Degrees	
	0 Degrees	ou Degrees	120 Degrees	
•	Resleeve			
65.	Opposite Drive End - Endbell Bearing	Fit Condition		(F) Fail
66.	Bearing Cap Condition			
	Drive End Bearing Cap	Opposite Drive End Bearing Cap		
	replace	pass		
67.	End Bell Air Seal Fits			
	Drive End Air Seal	Opposite Drive End Air Seal		
68.	List Machine Work Needed Below			
	Both end bells need Resleeve new sha	ft shaft bent also needs new de outside bea	aring cap	
69.	Technician			RW
H	RN			
	TRH			
	Cause of Failure			
70.	Failure locations			
	De bearing			

#### 71. Root cause of failure

Mixing grease caused the bearing to fail shaft drug on outside bearing cap bending shaft



Dynar	nic Balance Report		
72.	Rotor Weight and Balance Grade		
	Rotor Weight	Balance Grade	
73.	Initial Balance Readings		
	Drive End	Opposite Drive End	
74	Final Balance Readings		
74.	Drive End	Opposite Drive End	
	Dive Lind		
75.	Technician		
Rewin	nd		
76.	Core Test Results - Watts loss per Po	und	
	Pre-Burnout	Post Burnout	
77.	Core Hot Spot Test		
	Pre-Burnout	Post-Burnout	
78.	Post Rewind Electrical Test- Insulation	n Resistance	
79.	Post Rewind Polarization Index		
80.	Post Rewind Winding Resistance		
	1-2	1-3	2-3
	Post Rewind Surge Test		
82.			
	Technician		
	anical Fits- Rotor - Post Repair		
	Shaft Runout Post Repair		
80.	Rotor Runout Post Repair	Potor Pody	Opposite Drive End Desting
	Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing
86.	Coupling Fit Closest to Bearing Housi	ng Post Repair	
	0 Degrees	90 Degrees	120 Degrees

87.	Coupling Fit Closest to the end of the	Shaft Post Repair	
	0 Degrees	60 Degrees	120 Degrees
88.	Drive End Bearing Shaft Fit Post Rep	air	
	0 Degrees	60 Degrees	120 Degrees
89.	Opposite Drive End Bearing Shaft Fit	Post Repair	
	0 Degrees	60 Degrees	120 Degrees
90.	Shaft Air Seal Fits Post Repair		
	Drive End Air Seal	Opposite Drive End Air Seal	
91.	Shaft Repair Sign-off		
Mecha	anical Fits- Bearing Housings - P	ost Repair	
92.	Drive End - Endbell Bearing Fit Post I	Repair	
	0 Degrees	60 Degrees	120 Degrees
93.	Opposite Drive End - Endbell Bearing	Fit Post Repair	
	0 Degrees	60 Degrees	120 Degrees
94.	Bearing Cap Condition Post Repair		
	Drive End Bearing Cap	Opposite Drive End Bearing Cap	
95.	End Bell Air Seal Fits Post Repair		
	Drive End Air Seal	Opposite Drive End Air Seal	
00			
	End Bell Repair Sign-off		
Asser	-		
	QC Check All Parts for Cleanliness P	,	
	Photograph All Major Components pr	ior to assembly	
99.	Final Insulation Resistance Test		
100.	Assembled Shaft Endplay		
101.	Assembled Shaft Runout		
102.	Test Run Voltage		
	Volts	Volts	Volts
103.	Test Run Amperage		
	Amps	Amps	Amps
104.	Drive End Vibration Readings - Inche		
	Horizontal	Vertical	Axial
105.	Opposite Drive End Vibration Reading	-	
	Horizontal	Vertical	Axial
	Ambient Temperature - Fahrenheit		
107.	Drive End Bearing Temps - Fahrenhe		
	5 Minutes	10 Minutes	15 Minutes

108. Opposite Drive End Bearing	g Temps - Fahrenheit	
5 Minutes	10 Minutes	15 Minutes
109. Document Final Condition	with Pictures after paint	
110. Final Pics and QC Review		



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- 11. <u>GOVERNING LAW AND JURISDICTION.</u> Any controversy arising out of any quotation, the purchase order, the goods sold or delivered, repair or replacement thereof, or any services provided pursuant to any quotation or any purchase order, or these Standard Terms and Conditions shall be governed by the laws of the state of Tennessee without regard to any choice of law provisions and any cause of action related in any manner thereto shall be brought only in the state or federal courts of Shelby County, Tennessee.
- 12. <u>ABANDONED EQUIPMENT.</u> Hi-Speed requires that Buyer promptly pick up or provide shipment instructions for Buyer equipment or other Buyer property in Hi-Speed's possession. If equipment or other Buyer property is left with Hi-Speed and not picked up within six (6) months after Hi-Speed's final action related to the applicable property (e.g. evaluation, teardown, estimate, completion of services), Hi-Speed will consider such property abandoned and may dispose of it in accordance with applicable law. Buyer agrees to hold Hi-Speed harmless for any damage or claim for such abandoned property and acknowledges that Hi-Speed may discard or recycle it at Hi-Speed's sole and absolute discretion. Specifically, Hi-Speed may sell Buyer's abandoned property at a private or public sale and retain the proceeds to offset Hi-Speed's storage, inspection and servicing costs. For the avoidance of doubt, Hi-Speed reserves its statutory and other lawful liens for unpaid charges related to abandoned property.
- 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. <u>ASSIGNMENT.</u> 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. <u>NO INDIVIDUAL LIABILITY</u>. 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.