

## LR Motor Shop Repairs

## **Job Number 104374**

Prepared for Custom Craft Poultry

3064 E Main St Batesville AR 72501

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AC Inspection as Found - LR MOTOR SHOP

AC Inspection - Rev. 2: 91022247047

1.0





#### **AC Inspection as Found Custom Craft Poultry**

3064 E Main St Batesville, AR 72501

FolderID: 104374 FormID: 23901424

#### AC Inspection - Rev. 2

Location: LR MOTOR SHOP Serial Number: 91022247047 Description:25 HP WORLDWIDE

Hi-Speed Job Number:	104374
Manufacturer:	Other
Product Number:	LAM25-18-284T
Serial Number:	91022247047
HP/kW:	25 (HP)
RPM:	1775 (RPM)
Frame:	284T
Voltage:	230 / 460
Current:	71.6/35.8 (Amps)
Phase:	Three
Hz:	60 (Hz)
Service Factor:	1.25
Enclosure:	TEFC
# of Leads:	12
J-box Included:	Complete
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
21 - Good	

Priorities Found: 1 - Medium

1 - Low

#### **Overall Condition**

1. Report Date 05/09/2025

#### 2. Nameplate Picture



3. Photos of all six sides of the machine.



























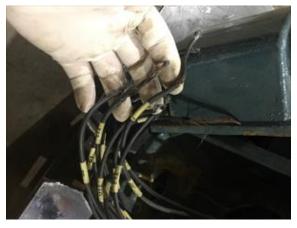








	4.	Describe the Overall Condition of the Equipment as Received  Dirty	
	5.	Is this a UL Listed Motor	(No) No
	6.	Is the motor water cooled or can be pressure checked before teardown	(No) No
In	itial	Mechanical/Electrical	
	7.	Does Shaft Turn Freely?	(Y) Yes
	8.	Does the shaft require T.I.R in Lathe to identify additional repairs?	(No) No
	9.	Does Shaft Have Visible Damage?	(No) No
	10.	Assembled Shaft Runout	Inches
	11.	Assembled Shaft End Play	inches
	12.	Air Gap Variation <10%	
	13.	Lead Condition	(P) Pass
	-	Signs of loose connection	

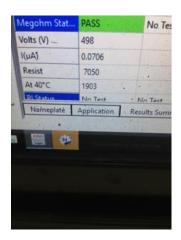


14.	Lead Length	14 Inches
15.	Does it have Lugs?, If so what is the Stud Size?	(No) No
16.	Lead Numbers	T1-T12
17.	Frame Condition	
18.	Fan Condition	(P) Pass
19.	Does motor have internal fan?	(No) No
20.	Broken or Missing Components	
-	J-box cover bolts are missing	
21.	Are the Leads insulated with Chico or other material	(No) No

#### **Initial Electrical Inspection**

22. Insulation Resistance/Megger

Megohms



23. Winding Resistance

1-2 1-3 2-3



24. Perform Surge Test

(P) Pass



Number of Stator Slots

48

26. Stator Condition

27. Stator Thermistors/Ohms

28. Stator Overloads/Ohms

# Mechanical Inspection29. Drive End Bearing BrandNSK30. Drive End Bearing Number-6311



31. E	Drive End Bearing Qty.	1
32. E	Drive End Bearing Type	(Ball) Ball Bearing
33. E	Drive End Lubrication Type	(Grease) Grease Lubricated
34. E	Orive End Bearing Insulation or Grounding Device?	
35. E	Orive End Wavy Washer/Snap-Ring Other Retention Device?	
36. E	Drive End Bearing Condition	
<b>₽</b> F	Replace	



37. Opposite Drive End Bearing Brand	NSK
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?	
43.	Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?	wavy washer
44.	Opposite Drive End Bearing Condition	
-	Contamination	



45.	Drive End Seal	slinger
46.	Opposite Drive End Seal	slinger
Rotor	Inspection	
47.	Rotor Type/Material	(Squirrel Aluminum) Squirrel Cage Aluminum Die Cast
48.	Growler Test	(Pass) Pass
49.	Number of Rotor Bars	42
<b>5</b> 0.	Rotor Condition	
51.	List the Parts needed for the Repair Below	
	6311 6310	

52	. Signature of Technician that Disassembled Motor

 $\mathsf{Cw}$ 

N	lechanical Fits- Rotor					
	53.	Shaft Runout			0 inches	
	54.	Rotor Runout				
		Drive End Bearing Fit	Rotor Body	Opposite Drive End E	Bearing	
	55.	Coupling Fit Closest to Bearing Housi	•	400 B		
		0 Degrees	90 Degrees	120 Degrees		
	56.	Coupling Fit Closest to the end of the	Shaft			
		0 Degrees	60 Degrees	120 Degrees		
		3	ŭ	3		
	57.	Drive End Bearing Shaft Fit				
		0 Degrees	60 Degrees	120 Degrees		
		2.1656-2.1656-2.1657				
	58.				(P) Pass	
		Opposite Drive End Bearing Shaft Fit			(1 ) 1 433	
	00.	0 Degrees	60 Degrees	120 Degrees		
		0 Dog.000	00 D0g1000	120 Dog1000		
	-	1.9686-1.9686-1.9686				
	60.	Opposite Drive End Bearing Shaft Fit	Condition		(P) Pass	
	61.	Shaft Air Seal Fits				
		Drive End Air Seal	Opposite Drive End Air Seal			
R.	loch	anical Fits- Bearing Housings				
IV		Drive End - Endbell Bearing Fit				
	02.	0 Degrees	60 Degrees	120 Degrees		
		o Degrees	oo Degrees	120 Degrees		
	-	4.7256-4.7253-4.7254				
	63.	Drive End - Endbell Bearing Fit Condi	tion		(P) Pass	
	64.	Opposite Drive End - Endbell Bearing				
		0 Degrees	60 Degrees	120 Degrees		
		4.3315-4.3315-4.3315				
	65.	Opposite Drive End - Endbell Bearing	Fit Condition		(P) Pass	
•	66.	Bearing Cap Condition			( )	
		Drive End Bearing Cap	Opposite Drive End Bearing Cap			
			5 1			
	67.	End Bell Air Seal Fits				
		Drive End Air Seal	Opposite Drive End Air Seal			
	60	List Machine Work Needed Delaw				
	68.	List Machine Work Needed Below				



Co sign:RRW

#### **Root Cause of Failure**

70. Failure locations

Leads and bearings

71. Root cause of failure

Loose connection and connection

#### **Dynamic 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

Drive End Opposite Drive End



75. Technician Cw



#### **Assembly**

76. QC Check All Parts for Cleanliness Prior to Assembly

Cw

Mun

77. Photograph All Major Components prior to assembly

(Complete) Complete

























78.	Final Insulation Resistance Test		Megohms	
79.	Assembled Shaft Endplay		inches	
80.	Assembled Shaft Runout		inches	
-	0.001			
81.	Test Run Voltage			
	Volts	Volts	Volts	



82. Test Run Amperage			
Amps	Amps	Amps	



83.	Drive End Vibration Readings - Inches	s Per Second	
	Horizontal	Vertical	Axial
-	H-0.002 V-0.001 A-0.002		
84.	Opposite Drive End Vibration Reading	s - Inches Per Second	
	Horizontal	Vertical	Axial
•	H-0.002 V-0.002 A-0.001		
85.	Ambient Temperature - Fahrenheit		
86.	Drive End Bearing Temps - Fahrenhei	t	
	5 Minutes	10 Minutes	15 Minutes
87.	Opposite Drive End Bearing Temps -	Fahrenheit	
	5 Minutes	10 Minutes	15 Minutes
88.	Document Final Condition with Picture	es after paint	







89. Final Pics and QC Review Cw

Avri

Co sign: TRH



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