

## 

# LR Motor Shop Repairs

## **Job Number 101977**

Prepared for Peco Foods

625 S. Allen Street Batesville AR 72501

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AC Inspection - Rev. 2

1.0



FolderID: 101977 FormID: 18129373



### **AC Inspection as Found**

Peco Foods

625 S. Allen Street Batesville, AR 72501

AC Inspection - Rev. 2

Location: Shop Serial Number:

Description:50 HP BALDOR W / PUMP ATTCH

Hi-Speed Job Number:	101977
Manufacturer:	Baldor
Serial Number:	C2304200227
HP/kW:	50 (HP)
RPM:	3540 (RPM)
Frame:	326JM
Voltage:	230 / 460
Current:	112 / 56
Phase:	Three
Hz:	60 (Hz)
Service Factor:	1.15
Enclosure:	TEFC
Coupling/Sheave:	None
Date Received:	10/11/2023
Repair Stage:	Final

Priorities Found: 1 - High



8 - Good

### **Overall Condition**

1. Report Date

Nameplate Picture



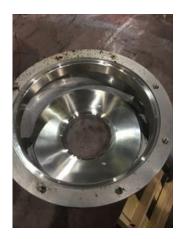






































- 3. Photos of all six sides of the machine.
- Describe the Overall Condition of the Equipment as Received Clean

#### Initial Mechanical/Electrical

••••	· c.a.	moonamod/Liodinga		
	5.	Does Shaft Turn Freely?	(Yes) Yes	
	6.	Does Shaft Have Visible Damage?	(No) No	
	7.	Assembled Shaft Runout	0 Inches	
	8.	Assembled Shaft End Play	0 inches	
	9.	Air Gap Variation <10%	none	

10.	Lead Condition		(P) Pass
11.	Lead Length		16 Inches
12.	Lead Numbers		1-9
13.	Stator Temperature Detector Rating a	nd Function	
	Quantity	Rating	Quantity Passed
	0	0	0
14.	Bearing Temperature Detector Rating	and Function	
	Quantity	Rating	Quantity Passed
	0	0	0
15.	Frame Condition		good
16.	Fan Condition		(P) Pass
17.	Heater Quantity, Ratings		
	Quantity	Volts/Watts	Pass/Fail
	0	0	0
18.	Broken or Missing Components		none
Initial	Electrical Inspection		
19.	Insulation Resistance/Megger		2000 Megohms



20.	Winding Resistance			
	1-2	1-3	2-3	
	.1100	.1100	.1100	
<b>2</b> 1.	Perform Surge Test		(P) Pass	
22.	Number of Stator Slots		36	
23.	Stator Condition		good	
24.	Stator Thermistors/Ohms		none	
25.	Stator Overloads/Ohms		none	
Mecha	anical Inspection			

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27.	Drive End Bearing Number-		6312 2RS
28.	Drive End Bearing Qty.		1
29.	Drive End Bearing Type		(Ball) Ball Bearing
30.	Drive End Lubrication Type		(Grease) Grease Lubricated
31.	Drive End Bearing Insulation or Groun	nding Device?	none
32.	Drive End Wavy Washer/Snap-Ring C	Other Retention Device?	N12 spanner nut and washer
33.	Drive End Bearing Condition		normal wear, some discoloration due to water conta
34.	Opposite Drive End Bearing Brand		NTN
35.	Opposite Drive End Bearing Number-		6311
36.	Opposite Drive End Bearing Qty.		1
37.	Opposite Drive End Bearing Type		(Ball) Ball Bearing
38.	Opposite Drive End Lubrication Type		(Grease) Grease Lubricated
39.	Opposite Drive End Bearing Insulation	or Grounding Device?	none
40.	Opposite Drive End Wavy Washer/Sna	ap-Ring Other Retention Device?	wavy washer
41.	Opposite Drive End Bearing Condition	1	normal wear
42.	Drive End Seal		none
43.	Opposite Drive End Seal		none
44.	DE Sleeve Bearing Inside Diameter		
	0 degrees	120 degrees	240 degrees
	0	0	0
45.	DE Sleeve Bearing Outside Diameter		
	0 degrees	120 degrees	240 degrees
	0	0	0
46.	DE Sleeve Bearing Housing Inside Dia	ameter	
	0 degrees	120 degrees	240 degrees
	0	0	0
47.	DE Sleeve Bearing to Housing Cleara	nce	
	0 degrees	120 degrees	240 degrees
	0	0	0
48.	ODE Sleeve Bearing Inside Diameter		
	0 degrees	120 degrees	240 degrees
	0	0	0

10	<b>ODE Sleeve Bearing Outside Diamete</b>	ar .	
43.	-		240 dagraga
	0 degrees	120 degrees	240 degrees
50	ODE Classes Baseines Hasseines Institut	0	0
50.	ODE Sleeve Bearing Housing Inside		0.40
	0 degrees	120 degrees	240 degrees
	0	0	0
51.	ODE Sleeve Bearing to Housing Clea		
	0 degrees	120 degrees	240 degrees
	0	0	0
Rotor	Inspection		
52.	Rotor Type/Material		(Squirrel Aluminum) Squirrel Cage Aluminum Die Cast
53.	Growler Test		(Pass) Pass
54.	Number of Rotor Bars		28
55.	Rotor Condition		good
56.	List the Parts needed for the Repair E	selow	
	6311, 6312, manufacturer spec mechan	ical seal	
57.	Signature of Technician that Disasser	mbled Motor	David Maclin
Mech	anical Fits- Rotor		
	Shaft Runout		0 inches
	Rotor Runout		V mones
33.	Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing
	0	Notor Body	Opposite Drive Life Dearing
60		0	
00.		<b>0</b>	0
	Coupling Fit Closest to Bearing Housi	ng	0
	Coupling Fit Closest to Bearing House 0 Degrees	ng 90 Degrees	120 Degrees
61	Coupling Fit Closest to Bearing Housi 0 Degrees 0	ng 90 Degrees 0	0
61.	Coupling Fit Closest to Bearing House 0 Degrees 0 Coupling Fit Closest to the end of the	ng 90 Degrees <b>0</b> Shaft	120 Degrees 0
61.	Coupling Fit Closest to Bearing Housi 0 Degrees 0 Coupling Fit Closest to the end of the 0 Degrees	ng 90 Degrees 0 Shaft 60 Degrees	120 Degrees 0 120 Degrees
	Coupling Fit Closest to Bearing Housi 0 Degrees 0 Coupling Fit Closest to the end of the 0 Degrees 0	ng 90 Degrees <b>0</b> Shaft	120 Degrees 0
	Coupling Fit Closest to Bearing House 0 Degrees 0 Coupling Fit Closest to the end of the 0 Degrees 0 Drive End Bearing Shaft Fit	ng 90 Degrees 0 Shaft 60 Degrees 0	120 Degrees 0 120 Degrees 0
	Coupling Fit Closest to Bearing House 0 Degrees 0 Coupling Fit Closest to the end of the 0 Degrees 0 Drive End Bearing Shaft Fit 0 Degrees	ng 90 Degrees 0 Shaft 60 Degrees 0	120 Degrees 0 120 Degrees 0 120 Degrees
62.	Coupling Fit Closest to Bearing House 0 Degrees 0 Coupling Fit Closest to the end of the 0 Degrees 0 Drive End Bearing Shaft Fit 0 Degrees 2.3625	ng 90 Degrees 0 Shaft 60 Degrees 0 60 Degrees 2.3624	120 Degrees 0 120 Degrees 0 120 Degrees 2.3625
62. • 63.	Coupling Fit Closest to Bearing House  O Degrees  Coupling Fit Closest to the end of the  Degrees  O  Drive End Bearing Shaft Fit  Degrees  2.3625  Drive End Bearing Shaft Fit Condition	ng 90 Degrees 0 Shaft 60 Degrees 0 60 Degrees 2.3624	120 Degrees 0 120 Degrees 0 120 Degrees
62. • 63.	Coupling Fit Closest to Bearing House  O Degrees  Coupling Fit Closest to the end of the  Degrees  Drive End Bearing Shaft Fit  Degrees  2.3625  Drive End Bearing Shaft Fit Condition Opposite Drive End Bearing Shaft Fit	90 Degrees  0 Shaft 60 Degrees 0 60 Degrees 2.3624	120 Degrees 0 120 Degrees 0 120 Degrees 2.3625 (P) Pass
62. • 63.	Coupling Fit Closest to Bearing House  O Degrees  Coupling Fit Closest to the end of the  Degrees  O  Drive End Bearing Shaft Fit  Degrees  2.3625  Drive End Bearing Shaft Fit Condition Opposite Drive End Bearing Shaft Fit  Degrees	ng 90 Degrees 0 Shaft 60 Degrees 0 60 Degrees 2.3624 60 Degrees	120 Degrees 0 120 Degrees 0 120 Degrees 2.3625 (P) Pass
62. • 63. 64.	Coupling Fit Closest to Bearing House  O Degrees  Coupling Fit Closest to the end of the  Degrees  Drive End Bearing Shaft Fit  Degrees  2.3625  Drive End Bearing Shaft Fit Condition  Opposite Drive End Bearing Shaft Fit  Degrees  2.1655	90 Degrees 0 Shaft 60 Degrees 0 60 Degrees 2.3624 60 Degrees	120 Degrees 0 120 Degrees 0 120 Degrees 2.3625 (P) Pass
62. • 63. 64.	Coupling Fit Closest to Bearing House  O Degrees  Coupling Fit Closest to the end of the  Degrees  O  Drive End Bearing Shaft Fit  Degrees  2.3625  Drive End Bearing Shaft Fit Condition Opposite Drive End Bearing Shaft Fit  Degrees	90 Degrees 0 Shaft 60 Degrees 0 60 Degrees 2.3624 60 Degrees	120 Degrees 0 120 Degrees 0 120 Degrees 2.3625 (P) Pass
62. • 63. 64.	Coupling Fit Closest to Bearing House  O Degrees  Coupling Fit Closest to the end of the  Degrees  Drive End Bearing Shaft Fit  Degrees  2.3625  Drive End Bearing Shaft Fit Condition  Opposite Drive End Bearing Shaft Fit  Degrees  2.1655  Opposite Drive End Bearing Shaft Fit  Shaft Air Seal Fits	90 Degrees 0 Shaft 60 Degrees 0 60 Degrees 2.3624  60 Degrees 2.1656 Condition	120 Degrees 0 120 Degrees 0 120 Degrees 2.3625 (P) Pass
62. • 63. 64.	Coupling Fit Closest to Bearing House  O Degrees  Coupling Fit Closest to the end of the  Degrees  O  Drive End Bearing Shaft Fit  Degrees  2.3625  Drive End Bearing Shaft Fit Condition Opposite Drive End Bearing Shaft Fit  Degrees  2.1655  Opposite Drive End Bearing Shaft Fit	90 Degrees 0 Shaft 60 Degrees 0 60 Degrees 2.3624 60 Degrees	120 Degrees 0 120 Degrees 0 120 Degrees 2.3625 (P) Pass
62. • 63. 64. • 65. 66.	Coupling Fit Closest to Bearing House  O Degrees  Coupling Fit Closest to the end of the  O Degrees  O  Drive End Bearing Shaft Fit  O Degrees  2.3625  Drive End Bearing Shaft Fit Condition Opposite Drive End Bearing Shaft Fit  O Degrees  2.1655  Opposite Drive End Bearing Shaft Fit Shaft Air Seal Fits  Drive End Air Seal	90 Degrees  0 Shaft 60 Degrees 0 60 Degrees 2.3624  60 Degrees 2.1656 Condition  Opposite Drive End Air Seal	120 Degrees 0 120 Degrees 0 120 Degrees 2.3625 (P) Pass

67.	Drive End - Endbell Bearing Fit			
0	0 Degrees	60 Degrees	120 Degrees	
	5.1185	5.1185	5.1185	
<ul><li>68.</li></ul>			0.1.100	(P) Pass
69.	Opposite Drive End - Endbell Bearing			( )
	0 Degrees	60 Degrees	120 Degrees	
	4.725	4.725	4.7252	
<b>7</b> 0.	Opposite Drive End - Endbell Bearing	Fit Condition		(P) Pass
71.	Bearing Cap Condition			
	Drive End Bearing Cap	Opposite Drive End Bearing Cap		
	good	good		
72.	End Bell Air Seal Fits			
	Drive End Air Seal	Opposite Drive End Air Seal		
	good	good		
73.	List Machine Work Needed Below			
	None			
74.	Technician			David Maclin
/				
Dynai	mic Balance Report			
75.	Rotor Weight and Balance Grade			
	Rotor Weight	Balance Grade		
76.	Initial Balance Readings			
	Drive End	Opposite Drive End		
77	Final Balance Readings			
77.	Drive End	Opposite Drive End		
	Drive Liid	Opposite Drive Life		
78.	Technician			
Rewir	nd			
79.	Core Test Results - Watts loss per Po	und		
	Pre-Burnout	Post Burnout		
80.				
	Pre-Burnout	Post-Burnout		
0.4	Doot Domind Electrical Total Control	- Desistance		
	Post Rewind Electrical Test- Insulation	1 Kesistance		
	Post Rewind Polarization Index			
<b>83</b> .	Post Rewind Winding Resistance	1.2	0.0	
	1-2	1-3	2-3	
84.	Post Rewind Surge Test			
	Post Rewind Hi-Pot			
86.	Technician			
50.	- verestations			

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Root	Cause of Failure				
87.	Failure locations				
88.	Root cause of failure				
Mechanical Fits- Rotor - Post Repair					
89.	Shaft Runout Post Repair				
90.	Rotor Runout Post Repair				
	Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing		
91.	Coupling Fit Closest to Bearing Hous	ing Post Repair			
	0 Degrees	90 Degrees	120 Degrees		
92.	Coupling Fit Closest to the end of the	Shaft Post Repair			
	0 Degrees	60 Degrees	120 Degrees		
93.	Drive End Bearing Shaft Fit Post Rep	air			
	0 Degrees	60 Degrees	120 Degrees		
94.	Opposite Drive End Bearing Shaft Fit	Post Repair			
	0 Degrees	60 Degrees	120 Degrees		
95.	Shaft Air Seal Fits Post Repair				
	Drive End Air Seal	Opposite Drive End Air Seal			
96.	Shaft Repair Sign-off				
Mecha	anical Fits- Bearing Housings - P	ost Repair			
97.	Drive End - Endbell Bearing Fit Post I	Repair			
	0 Degrees	60 Degrees	120 Degrees		
98.	Opposite Drive End - Endbell Bearing Fit Post Repair				
	0 Degrees	60 Degrees	120 Degrees		
99.	Bearing Cap Condition Post Repair				
	Drive End Bearing Cap	Opposite Drive End Bearing Cap			
100.	End Bell Air Seal Fits Post Repair				
	Drive End Air Seal	Opposite Drive End Air Seal			
101.	DE Sleeve Bearing Inside ID Post Re	pair			
	Measure 1	Measure 2	Measure 3		
102.	DE Sleeve Bearing Outside ID Post F	Repair			
	Measure 1	Measure 2	Measure 3		
103.	DE Sleeve Bearing Inside OD Post R	epair			
	Measure 1	Measure 2	Measure 3		
104.	DE Sleeve Bearing Outside OD Post	Repair			
	Measure 1	Measure 2	Measure 3		

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105.	End Bell Repair Sign-off				
	ODE Sleeve Bearing Inside ID Post R	epair			
	Measure 1	Measure 2	Measure 3		
	Modelle 1	Modelio 2	Widdow C		
107.	ODE Sleeve Bearing Outside ID Post	Repair			
	Measure 1	Measure 2	Measure 3		
108.	ODE Sleeve Bearing Inside OD Post I	•			
	Measure 1	Measure 2	Measure 3		
400		4 B			
109.	ODE Sleeve Bearing Outside OD Pos		Mariana		
	Measure 1	Measure 2	Measure 3		
Assen	nbly				
	QC Check All Parts for Cleanliness Pr	ior to Assembly			
	Photograph All Major Components pri	•			
	Final Insulation Resistance Test	•			
	Assembled Shaft Endplay				
	Assembled Shaft Runout				
115.	Test Run Voltage				
	Volts	Volts	Volts		
116.	Test Run Amperage				
	Amps	Amps	Amps		
447					
117.	Drive End Vibration Readings - Inches		A :-1		
	Horizontal	Vertical	Axial		
118.	Opposite Drive End Vibration Reading	s - Inches Per Second			
	Horizontal	Vertical	Axial		
119.	Ambient Temperature - Fahrenheit				
120.	Drive End Bearing Temps - Fahrenhe	t			
	5 Minutes	10 Minutes	15 Minutes		
121.	Drive End Bearing Temps - Fahrenhe				
	20 Minutes	25 Minutes	30 Minutes		
122	Drive End Bearing Temps - Fahrenhe	t 35-45 Minutes			
122.	35 Minutes	40 Minutes	45 Minutes		
	JJ WIII IULES	TO MINIMES	TO MINIMES		
123.	Drive End Bearing Temps - Fahrenhe	t 50-60 Minutes			
	50 Minutes	55 Minutes	60 Minutes		
124.	Opposite Drive End Bearing Temps -	Fahrenheit			
	5 Minutes	10 Minutes	15 Minutes		

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125.	. Opposite Drive End Bearing Temps - Fahrenheit 20-30 Minutes		
	20 Minutes	25 Minutes	30 Minutes
126.	Opposite Drive End Bearing Temps -	Fahrenheit 35-45 Minutes	
	35 Minutes	40 Minutes	45 Minutes
127.	Opposite Drive End Bearing Temps -	Fahrenheit 50-60 Minutes	
	50 Minutes	55 Minutes	60 Minutes
128.	Stator Temperatures- Fahrenheit		
	5 Minutes	10 Minutes	15 Minutes
129.	Stator Temperatures- Fahrenheit 20-3	30 Minutes	
	20 Minutes	25 Minutes	30 Minutes
130.	Stator Temperatures- Fahrenheit 35-4	45 Minutes	
	35 Minutes	40 Minutes	45 Minutes
131.	Stator Temperatures- Fahrenheit 50-6	60 Minutes	
	50 Minutes	55 Minutes	60 Minutes
132.	Document Final Condition with Picture	es after paint	
133	Final Pics and QC Review		



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- 10. <u>SEVERABILITY.</u> The partial or complete invalidity of any provision of these Standard Terms and Conditions shall not affect the enforceability of the remainder of these Standard Terms and Conditions. If any provision is found to be invalid or unenforceable, that portion shall be modified to make it enforceable or shall be stricken and the remainder of these Standard Terms and Conditions shall enforced.
- 11. **GOVERNING LAW AND JURISDICTION.** 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. ABANDONED EQUIPMENT. 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. **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.