

# LR Motor Shop Repairs

# **Job Number 101225**

Prepared for NABCO Service Company

PO Box 1547 Conway AR 72033

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### **AC Inspection as Found NABCO Service Company**

PO Box 1547 Conway, AR 72033

FolderID: 101225 FormID: 16486501

#### AC Inspection - Rev. 2

Location: MOTOR SHOP LR Serial Number: F2011035700

Description: 5HP BALDOR 1200RPM 215TCZ

Hi-Speed Job Number:	101225
Manufacturer:	Baldor
Product Number:	91899168
Spec/ID #:	37H246R726G1
Serial Number:	F2011035700
HP/kW:	5 (HP)
RPM:	1160 (RPM)
Frame:	215TCZ
Voltage:	230 / 460
Current:	14/7
Phase:	Three
Hz:	60 (Hz)
Service Factor:	1.15
Enclosure:	ODP
J-box Included:	Complete
Bearing RTDs:	No
Stator RTDs:	No
Repair Stage:	Final
Heaters:	No
Winding Type :	Random Wound
Bearing Type:	Rolling Element

Priorities Found: 1 - High



4 - Good

### **Overall Condition**

- 1. Report Date
- 2. Nameplate Picture



Photos of all six sides of the machine.



























	4.	Describe the Overall Condition of the Equipment as Received	
	5.	Distance from the end of the shaft to the Coupling/Sheave	
Init	tial	Mechanical/Electrical	
	6.	Does Shaft Turn Freely?	(Yes) Yes
	7.	Does Shaft Have Visible Damage?	(No) No
	8.	Assembled Shaft Runout	
	9.	Assembled Shaft End Play	
1	10.	Air Gap Variation <10%	
• 1	11.	Lead Condition	(P) Pass
1	12.	Lead Length	12 Inches
1	13.	Frame Condition	good
1	14.	Fan Condition	(N) NA
1	15.	Broken or Missing Components	none
Init	tial	Electrical Inspection	
1	16.	Insulation Resistance/Megger	2000 Megohms
1	17.	Winding Resistance	
		1-2 1-3	2-3
			(D) D
	18.	Perform Surge Test	(P) Pass
	19.	Number of Stator Slots	
	20.	Stator Condition	good
	21.		
		Stator Overloads/Ohms	
		anical Inspection	
		Drive End Bearing Brand	nacho
		Drive End Bearing Number-	6308
	25.	Drive End Bearing Qty.	1
	26.	Drive End Bearing Type	(Ball) Ball Bearing
	27.	Drive End Lubrication Type	(Grease) Grease Lubricated
	28.	Drive End Bearing Insulation or Grounding Device?	none
	29.	Drive End Wavy Washer/Snap-Ring Other Retention Device?	none
	30.	Drive End Bearing Condition	ok
		Opposite Drive End Bearing Brand	nacho
	32.	Opposite Drive End Bearing Number-	6206
3	33.	Opposite Drive End Bearing Qty.	1

34. 35.			/= ··· = · ·
35.	-11		(Ball) Ball Bearing
	Opposite Drive End Lubrication Type		(Grease) Grease Lubricated
36.	Opposite Drive End Bearing Insulation or Grounding Device?		none
37.	Opposite Drive End Wavy Washer/Sn	· · ·	wavy
38.	Opposite Drive End Bearing Condition	1	ok
39.			
40.	-11		
	Inspection		
41.	Rotor Type/Material		(Squirrel Aluminum) Squirrel Cage Aluminum Die Cast
42.	Growler Test		(Pass) Pass
43.	Number of Rotor Bars		
44.	Rotor Condition		good
45.	List the Parts needed for the Repair B	elow	
	6206, 6309, 1 3/4 * 2 1/2 mech seal		
,	Signature of Technician that Disasser		
Mecha	anical Fits- Rotor		
47.	Shaft Runout		
48.	Rotor Runout		
	Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing
49.		•	
	0 Degrees	90 Degrees	120 Degrees
50.	Coupling Fit Closest to the end of the	Chaft	
50.	· •		120 Daggara
	0 Degrees	60 Degrees	120 Degrees
51	Drive End Bearing Shaft Fit		
	0 Degrees	60 Degrees	
			120 Degrees
	0 Degrees	oo Degrees	120 Degrees
52.		•	120 Degrees (P) Pass
52. 53.	Drive End Bearing Shaft Fit Condition	•	
	Drive End Bearing Shaft Fit Condition	•	
	Drive End Bearing Shaft Fit Condition Opposite Drive End Bearing Shaft Fit 0 Degrees	60 Degrees	(P) Pass
53.	Drive End Bearing Shaft Fit Condition Opposite Drive End Bearing Shaft Fit 0 Degrees Opposite Drive End Bearing Shaft Fit	60 Degrees	(P) Pass
53. 54.	Drive End Bearing Shaft Fit Condition Opposite Drive End Bearing Shaft Fit 0 Degrees Opposite Drive End Bearing Shaft Fit	60 Degrees	(P) Pass
53. 54. 55.	Drive End Bearing Shaft Fit Condition Opposite Drive End Bearing Shaft Fit 0 Degrees Opposite Drive End Bearing Shaft Fit Shaft Air Seal Fits	60 Degrees Condition	(P) Pass
53. 54. 55.	Drive End Bearing Shaft Fit Condition Opposite Drive End Bearing Shaft Fit 0 Degrees Opposite Drive End Bearing Shaft Fit Shaft Air Seal Fits Drive End Air Seal	60 Degrees Condition	(P) Pass
53. 54. 55.	Drive End Bearing Shaft Fit Condition Opposite Drive End Bearing Shaft Fit 0 Degrees Opposite Drive End Bearing Shaft Fit Shaft Air Seal Fits Drive End Air Seal anical Fits- Bearing Housings	60 Degrees Condition	(P) Pass

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<b>E</b> 0	Opposite Drive End - Endbell Bearing	× ⊑i+	
58.			120 Dograpa
	0 Degrees	60 Degrees	120 Degrees
59.	Opposite Drive End - Endbell Bearing	a Fit Condition	(F) Fail
•	Sold customer used end bell	,	(-,
60.	Bearing Cap Condition		
00.	Drive End Bearing Cap	Opposite Drive End Bearing Cap	
	Dive the Bearing Cap	Opposite Drive Line Bearing Cap	
61.	End Bell Air Seal Fits		
	Drive End Air Seal	Opposite Drive End Air Seal	
		· ·	
62.	List Machine Work Needed Below		
	None		
63.	Technician		David Maclin
Dynar	nic Balance Report		
64.	Rotor Weight and Balance Grade		
	Rotor Weight	Balance Grade	
65.	•		
	Drive End	Opposite Drive End	
00	Final Dalamas Dandings		
66.	Final Balance Readings	Opposite Drive Ford	
	Drive End	Opposite Drive End	
67.	Technician		
Rewir	nd		
	Core Test Results - Watts loss per Po	ound	
	Pre-Burnout	Post Burnout	
69.	Core Hot Spot Test		
	Pre-Burnout	Post-Burnout	
70.		on Resistance	
	Post Rewind Polarization Index		
72.	Post Rewind Winding Resistance		
	1-2	1-3	2-3
73	Post Rewind Surge Test		
74.	•		
	Technician		
	Cause of Failure		
	Failure locations		
	Root cause of failure		
	anical Fits- Rotor - Post Repair		
	amean no notor i oot nopali		

78.	Shaft Runout Post Repair		
79.	Rotor Runout Post Repair		
	Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing
80.	Coupling Fit Closest to Bearing House	· · · · · · · · · · · · · · · · · · ·	
	0 Degrees	90 Degrees	120 Degrees
81.	Coupling Fit Closest to the end of the	Shaft Post Repair	
0	0 Degrees	60 Degrees	120 Degrees
	0 Degrees	00 Degrees	120 Degrees
82.	Drive End Bearing Shaft Fit Post Rep	air	
	0 Degrees	60 Degrees	120 Degrees
		Ţ	•
83.	Opposite Drive End Bearing Shaft Fit	Post Repair	
	0 Degrees	60 Degrees	120 Degrees
84.	Shaft Air Seal Fits Post Repair		
	Drive End Air Seal	Opposite Drive End Air Seal	
85	Shaft Repair Sign-off		
	anical Fits- Bearing Housings - P	ost Renair	
	Drive End - Endbell Bearing Fit Post Repair		
00.	0 Degrees	60 Degrees	120 Degrees
	0 Degrees	00 Degrees	120 Deglees
87.	Opposite Drive End - Endbell Bearing	Fit Post Repair	
	0 Degrees	60 Degrees	120 Degrees
		3	
88.	Bearing Cap Condition Post Repair		
	Drive End Bearing Cap	Opposite Drive End Bearing Cap	
89.	End Bell Air Seal Fits Post Repair		
	Drive End Air Seal	Opposite Drive End Air Seal	
	End Bell Repair Sign-off		
Asser	·		
91.	QC Check All Parts for Cleanliness P	rior to Assembly	David Maclin

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### 92. Photograph All Major Components prior to assembly













- 93. Final Insulation Resistance Test
- 94. Assembled Shaft Endplay
- 95. Assembled Shaft Runout

96. Test Run Voltage			
Volts	Volts	Volts	
457	458	459	



97.	Test Run Amperage		
	Amps	Amps	Amps
	3.2	3.3	3.4
98.	Drive End Vibration Readings - Inches	Per Second	
	Horizontal	Vertical	Axial
	0.0185	0.0267	0.0238
99.	Opposite Drive End Vibration Reading	s - Inches Per Second	
	Horizontal	Vertical	Axial
	0.0307	295	0.0255
100.	Ambient Temperature - Fahrenheit		
101.	Drive End Bearing Temps - Fahrenhe	t	
	5 Minutes	10 Minutes	15 Minutes
102.	Opposite Drive End Bearing Temps -	Fahrenheit	
	5 Minutes	10 Minutes	15 Minutes
103	Document Final Condition with Picture	es after paint	









104. Final Pics and QC Review David Maclin



Hi-Speed Industrial Service 7030 Ryburn Dr Millington, Tn 38053 901-873-5300

> FolderID: 101225 FormID: 16486509

## **Split Case Centrifugal Pump Report**

**NABCO Service Company** 

PO Box 1547 Conway, AR 72033

#### Priorities Found:

#### General

- 1. Job Number
- 2. Report Date
- 3. Customer

#### **Initial Inspection**

4. Bowl Condition



- 5. Impeller Condition
- 6. Wear Ring Condition
- 7. Wear Ring Material
- 8. Seal Surfaces Condition
- 9. Number of Seals
- 10. Seal Type
- 11. Seal Material on Rotary Face
- 12. Seal Material on Stationary Seat
- 13. Mechanical Seal ID/Shaft Diameter
- 14. Mechanical Seal OD
- 15. Mechanical Seal Length
- 16. Lip Seal Elastic Material
- 17. Lip Seal ID/Shaft Diameter
- 18. Lip Seal OD/Bore Diameter
- 19. Lip Seal Height
- 20. Seal Sleeve Material
- 21. Seal Plate Condition
- 22. Seal Cavity

00	01 (10 0 1		
	Shaft Run Out		
	Does Shaft Turn Freely		
	Does Shaft Have Visible Damage		
	Frame Condition		
	Fan Condition		
	Broken or missing components		
	anical Inspection		
	Bearing Manufacture		
	Bearing DE Size		
	Bearing DE Type		
33.	DE Bearing Qty.		
34.	Bearing ODE Size		
35.	Bearing ODE Type		
36.	ODE Bearing Qty.		
37.	Insulated Bearing		
	Lubrication Type		
39.	Grease Condition		
	Bearing Retainers		
41.	Shaft Grounding Device		
42.	DE Seal		
43.	DE Seal Type/Size		
44.	ODE Seal		
45.	ODE Seal Type/Size		
46.	Wear Ring Size		
47.	Clearances on Wear Ring to Impeller		
48.	Number of Wear Rings		
49.	Wear Ring Material		
Root (	Cause of Failure		
50.	Component Failure		
51.	Cause of Failure		
52.	Comments		
53.	Service Technician		
Machi	ine Fit Inspection Report		
54.	Shaft Run Out		
55.	Shaft Run Out Measurements		
	Initial	Final	
56.	DE Bearing Shaft Fit		
57.	DE Initial Shaft Bearing Fit Size		
	Measure 1	Measure 2	Measure 3
58.	DE Final Shaft Bearing Fit Size		
	Measure 1	Measure 2	Measure 3
59.	ODE Bearing Shaft Fit		

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60	ODE Initial Shaft Bearing Fit Size		
00.	Measure 1	Measure 2	Measure 3
	Weddare 1	Woddu Z	Wedgure 6
61.	ODE Final Shaft Bearing Fit Size		
	Measure 1	Measure 2	Measure 3
62.	DE Air Seal Shaft Fit		
63.	DE Air Seal Shaft Size		
	Initial	Final	
	ODE Air Seal Shaft Fit		
65.	ODE Air Seal Shaft Size		
	Initial	Final	
66.	DE Endbell Fit		
67.	DE Initial Endbell Fit Size		
	Measure 1	Measure 2	Measure 3
68.	DE Final Endbell Fit Size		
	Measure 1	Measure 2	Measure 3
	DE Endbell Fit Insulated		
	DE Endbell Air Seal Fit		
/1.	DE Endbell Air Seal Fit Size		
	Initial	Final	
72.	ODE Endbell Fit		
73.	ODE Initial Endbell Fit Size		
	Measure 1	Measure 2	Measure 3
74.	ODE Final Endbell Fit Size		
	Measure 1	Measure 2	Measure 3
75	ODE Early all Eitheanlated		
	ODE Endbell Fit Insulated		
76.	ODE Endbell Air Seal Fit ODE Endbell Seal Fit Size		
11.	Initial	Final	
	iiiilai	ı ırıdı	
78.	Foot Flatness		
79.	Foot Condition		
80.	Flange Condition		
81.	Service Technician		
Balan	cing Report		
82.	Balance Type		
83.	Balance Operating Speed		
84.	Starting Measurements		
	Left End	Right End	
0.5	Dalancia a On seific di		
85.	Balancing Specification		

86.	Finished Measurements	
	Left End	Right End
87.	Service Technician	
Assen	nbly and Final Test	
88.	Impeller Balanced	
89.	Seal Cavity Test Pressure	
90.	Pressure Test Time	
91.	Painted	
92.	Final Assembly Completed	
93.	Service Technician	



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- 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.
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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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