

# LR Motor Shop Repairs

## **Job Number 102826**

Prepared for Amcor (010764)

3033 East 16th St. Russellville AR 72802

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### **AC Inspection as Found**

Amcor (010764)

3033 East 16th St. Russellville, AR 72802

AC Inspection - Rev. 2

LITTLE ROCK MOTOR SHOP Location:

Serial Number: Z0502280095

Description: 40HP BALDOR 1770 RPM

Hi-Speed Job Number:	102826
Manufacturer:	Baldor
Spec/ID #:	10F315Z908H2
Serial Number:	Z0502280095
HP/kW:	40 (HP)
RPM:	1770 (RPM)
Frame:	324T
Voltage:	208-230/460
Phase:	Three
Hz:	60 (Hz)
Service Factor:	1.15
Enclosure:	TEFC
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

Priorities Found: 2 - High

9 - Good

### **Overall Condition**

05/20/2024 Report Date

Nameplate Picture



Photos of all six sides of the machine.

























4.	Describe the Overall Condition of the Equipment as Received  Missing fan and cover			
5.	Distance from the end of the shaft to the Coupling/Sheave	0 inches		
Initia	Initial Mechanical/Electrical			
<b>6</b> .	Does Shaft Turn Freely?	(Y) Yes		
<b>7</b> .	Does the shaft require T.I.R in Lathe to identify additional repairs?	(No) No		
8.	Does Shaft Have Visible Damage?	(No) No		
9.	Assembled Shaft Runout	0 Inches		
10	Assembled Shaft End Play	0 inches		

Air Gap Variation <10%		none	
Lead Condition		(P) Pass	
Lead Length		10 Inches	
. Does it have Lugs?, If so what is the Stud Size?		(No) No	
Lead Numbers		1-9	
6. Stator Temperature Detector Rating and Function			
Quantity	Rating	Quantity Passed	
0			
17. Bearing Temperature Detector Rating and Function			
Quantity	Rating	Quantity Passed	
0			
Frame Condition		good	
Fan Condition		(F) Fail	
Broken or Missing Components		missing fan and cover	
Initial Electrical Inspection			
Insulation Resistance/Megger		2000 Megohms	
	Lead Condition  Lead Length  Does it have Lugs?, If so what is the Stator Temperature Detector Rating a Quantity  O  Bearing Temperature Detector Rating Quantity  O  Frame Condition  Fan Condition  Broken or Missing Components  Electrical Inspection	Lead Condition  Lead Length  Does it have Lugs?, If so what is the Stud Size?  Lead Numbers  Stator Temperature Detector Rating and Function  Quantity Rating  0  Bearing Temperature Detector Rating and Function  Quantity Rating  0  Frame Condition  Fan Condition  Broken or Missing Components  Electrical Inspection	



22.	Winding Resistance			
	1-2	1-3	2-3	
	.169	.169	.169	
<b>2</b> 3.	Perform Surge Test		(P) I	Pass
24.	Number of Stator Slots			48
25.	Stator Condition		g	jood
26.	Stator Thermistors/Ohms		n	none
27.	Stator Overloads/Ohms		n	none
Mecha	anical Inspection			

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29.	Drive End Bearing Number-		6312
30.	Drive End Bearing Qty.		1
31.	Drive End Bearing Type		(Ball) Ball Bearing
32.	Drive End Lubrication Type		(Grease) Grease Lubricated
33.	Drive End Bearing Insulation or Groun	iding Device?	no
34.	Drive End Wavy Washer/Snap-Ring C	other Retention Device?	spanner nut and locking ring
35.	Drive End Bearing Condition		normal wear
36.	Opposite Drive End Bearing Brand		SKF
37.	Opposite Drive End Bearing Number-		6309
38.	Opposite Drive End Bearing Qty.		1
39.	Opposite Drive End Bearing Type		(Ball) Ball Bearing
40.	Opposite Drive End Lubrication Type		(Grease) Grease Lubricated
41.	Opposite Drive End Bearing Insulation	or Grounding Device?	none
42.	Opposite Drive End Wavy Washer/Sn	ap-Ring Other Retention Device?	none
43.	Opposite Drive End Bearing Condition		contaminated
44.	Drive End Seal		none
45.	Opposite Drive End Seal		none
Rotor	Inspection		
46.	Rotor Type/Material		(Squirrel Aluminum) Squirrel Cage Aluminum Die Cast
47.	Growler Test		(Pass) Pass
48.	Number of Rotor Bars		40
49.	. Rotor Condition good		good
50.	List the Parts needed for the Repair B	elow	
	6309, 6312, fan 1 11/16 shaft size, fan c	over.	
51.	Signature of Technician that Disassembled Motor		
Mecha	anical Fits- Rotor		
52.	Shaft Runout		0 inches
53.	Rotor Runout		
	Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing
	0	0	0
54.	Coupling Fit Closest to Bearing Housi	ng	
	0 Degrees	90 Degrees	120 Degrees
	0	0	0

55	Coupling Fit Classest to the and of the	Shoft		
55	Coupling Fit Closest to the end of the		400 D	
	0 Degrees	60 Degrees	120 Degrees	
	0	0	0	
56	Drive End Bearing Shaft Fit		_	
	0 Degrees	60 Degrees	120 Degrees	
	2.3625	2.3626	2.3625	
57	Drive End Bearing Shaft Fit Condition			(P) Pass
58	Opposite Drive End Bearing Shaft Fit			
	0 Degrees	60 Degrees	120 Degrees	
	1.7722	1.7722	1.7722	
<b>9</b> 59	Opposite Drive End Bearing Shaft Fit	Condition		(P) Pass
60	Shaft Air Seal Fits			
	Drive End Air Seal	Opposite Drive End Air Seal		
	ok	ok		
Mech	nanical Fits- Bearing Housings			
61	Drive End - Endbell Bearing Fit			
	0 Degrees	60 Degrees	120 Degrees	
	5.1185	5.1184	5.1183	
<b>6</b> 2	Drive End - Endbell Bearing Fit Cond	ition		(P) Pass
63	Opposite Drive End - Endbell Bearing	Fit		
	0 Degrees	60 Degrees	120 Degrees	
	3.9372	3.9372	3.9372	
64.	Opposite Drive End - Endbell Bearing	Fit Condition		(P) Pass
	Bearing Cap Condition			. ,
	Drive End Bearing Cap	Opposite Drive End Bearing Cap		
	ok	ok		
66	End Bell Air Seal Fits			
	Drive End Air Seal	Opposite Drive End Air Seal		
	ok	ok		
67	List Machine Work Needed Below			
	None			
68	Technician			David Maclin
	^ -			
		}		
	Cause of Failure			
69	Failure locations			
	Ode bearing			
70	Root cause of failure			
	Contamination			
-	Dynamic Balance Report			
71	Rotor Weight and Balance Grade			
	Rotor Weight	Balance Grade		

72.	Initial Balance Readings		
	Drive End	Opposite Drive End	
73.	Final Balance Readings		
	Drive End	Opposite Drive End	
7/	Technician		
Assen			
	QC Check All Parts for Cleanliness Pr	ior to Assembly	
	Photograph All Major Components pri	-	
	Final Insulation Resistance Test	or to decembly	
	Assembled Shaft Endplay		
	Assembled Shaft Runout		
80.	Test Run Voltage		
	Volts	Volts	Volts
81.	Test Run Amperage		
	Amps	Amps	Amps
82.	Drive End Vibration Readings - Inches	s Per Second	
	Horizontal	Vertical	Axial
83.	Opposite Drive End Vibration Reading		
	Horizontal	Vertical	Axial
84	Ambient Temperature - Fahrenheit		
	Drive End Bearing Temps - Fahrenhei	it	
	5 Minutes	10 Minutes	15 Minutes
86.	Opposite Drive End Bearing Temps -	Fahrenheit	
	5 Minutes	10 Minutes	15 Minutes
07	Decument Final Condition with District	a after point	
	Document Final Condition with Picture Final Pics and QC Review	es after paint	
88.	Final Fics and QC Review		

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- 5. <u>DELIVERY OF GOODS AND/OR SERVICES.</u> Unless otherwise identified in the quotation, all shipments are F.O.B. Hi-Speed's warehouse and the title to and all risk of loss with respect to any goods shipped shall pass to Buyer when such goods are delivered to the carrier at Hi-Speed's warehouse. Hi-Speed will use its best efforts to affect delivery by the date or dates specified in the quotation. However, Hi-Speed shall not be liable for delay in or failure to make shipment, or to perform services, by any identified date for any reason whatsoever, including but not limited to, causes beyond its reasonable control, such as strikes, fires, floods, epidemics, quarantines, restrictions, severe weather, embargos, acts of God, or public enemy, war, riot, delays in transportation or the inability to obtain necessary labor, materials or manufacturing facilities.
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