

# LR Motor Shop Repairs

# **Job Number 100433**

Prepared for Arauco-Malvern MDF (10298)

1275 Willamette Rd Malvern AR 72104

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AC Recondition As Found - LR MOTORSHOP

AC Recondition - Rev. 2: H3200269-559

1.0





### **AC Recondition As Found** Arauco-Malvern MDF (10298)

1275 Willamette Rd Malvern, AR 72104

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#### AC Recondition - Rev. 2

LR MOTORSHOP Location: Serial Number: H3200269-559 Description: 60HP US MOTORS 1800RPM 364TS

Hi-Speed Job Number:	100433
Manufacturer:	US Motors/Nidec
Serial Number:	H3200269-559
HP/kW:	60 (HP)
RPM:	1770 (RPM)
Frame:	364TS
Voltage:	230 / 460
Current:	142/71
Phase:	Three
Hz:	60 (Hz)
Service Factor:	1.15
Enclosure:	TEFC
J-box Included:	Half
Coupling/Sheave:	None
Bearing RTDs:	No
Stator RTDs:	No
Repair Stage:	Teardown Inspection
Heaters:	No
Winding Type :	Random Wound
Bearing Type:	Rolling Element

Priorities Found: 2 - High

6 - Good

### **Overall Condition**

1. Report Date

Nameplate Picture



Photos of all six sides of the machine.

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	4.	Describe the Overall Condition of the Equipment as Received	
In	itial	Mechanical/Electrical	
	5.	Does Shaft Turn Freely?	(Yes) Yes
	6.	Does Shaft Have Visible Damage?	(No) No
	7.	Assembled Shaft Runout	
	8.	Assembled Shaft End Play	
	9.	Air Gap Variation <10%	
	10.	Lead Condition	(P) Pass
	11.	Lead Length	14 Inches

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14.	Broken or Missing Components			na
Initial Electrical Inspection				
15.	Insulation Resistance/Megger			
16.	Winding Resistance			
	1-2	1-3	2-3	
17.	Perform Surge Test			(P) Pass



18.	Stator Condition	pass	
Mech	Mechanical Inspection		
19.	Drive End Bearing Number-	6212	
20.	Drive End Bearing Qty.	1	
21.	Drive End Bearing Type	(Ball) Ball Bearing	
22.	Drive End Lubrication Type	(Grease) Grease Lubricated	
23.	Drive End Bearing Insulation or Grounding Device?	na	
24.	Drive End Wavy Washer/Snap-Ring Other Retention Device?	na	
25.	Drive End Bearing Condition	wear	
26.	Opposite Drive End Bearing Number-	6212	
27.	Opposite Drive End Bearing Qty.	1	
28.	Opposite Drive End Bearing Type	(Ball) Ball Bearing	
29.	Opposite Drive End Lubrication Type	(Grease) Grease Lubricated	

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46. Drive End Bearing Shaft Fit Condition

33.	Drive End Seal	na
34.	Opposite Drive End Seal	na
Rotor	Inspection	
35.	Rotor Type/Material	(Squirrel Aluminum) Squirrel Cage Aluminum Die Cast
36.	Growler Test	(Pass) Pass
37.	Number of Rotor Bars	40
38.	Rotor Condition	pass
39.	List the Parts needed for the Repair Below	
	6212 x2 End bell bearing fit sleeve	
40.	Signature of Technician that Disassembled Motor	Cw
M		

Mechanica	l Fits- Rotor		
41. Shaf	t Runout		
42. Roto	r Runout		
Drive	e End Bearing Fit	Rotor Body	Opposite Drive End Bearing
43. Coup	oling Fit Closest to Bearing Housi	ng	
0 De	egrees	90 Degrees	120 Degrees
44. Coup	44. Coupling Fit Closest to the end of the Shaft		
0 De	egrees	60 Degrees	120 Degrees
45. Drive	End Bearing Shaft Fit		
0 De	egrees	60 Degrees	120 Degrees

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(NA) Not Applicable

47.	Opposite Drive End Bearing Shaft Fit		
	0 Degrees	60 Degrees	120 Degrees
48.	Opposite Drive End Bearing Shaft Fit	Condition	(NA) Not Applicable
49.	Shaft Air Seal Fits		
	Drive End Air Seal	Opposite Drive End Air Seal	
	anical Fits- Bearing Housings		
50.	Drive End - Endbell Bearing Fit		
	0 Degrees	60 Degrees	120 Degrees
_			
-	Under sized 4.3302, 4.3305, 4.3301		
51.	Drive End - Endbell Bearing Fit Condi	tion	(F) Fail
-	Needs buffered		
52.	Opposite Drive End - Endbell Bearing	Fit	
	0 Degrees	60 Degrees	120 Degrees
-	Over sized and egg shaped 4.3319, 4.3328, 4.3316		
53.	Opposite Drive End - Endbell Bearing	Fit Condition	(F) Fail
54.	Bearing Cap Condition		
	Drive End Bearing Cap	Opposite Drive End Bearing Cap	
7	Na		
55.	End Bell Air Seal Fits		
	Drive End Air Seal	Opposite Drive End Air Seal	
56.	List Machine Work Needed Below		
50.	Both end bell bearing fits		
57.	Technician		Cw
	/ //		-
/			
/			
Root (	Cause of Failure		
	Failure locations		

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Both bearings and end bell bearing fits

# 59. Root cause of failure *Wear*



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