

# EVERY DAY SINCE 1946

LR Motor Shop Repairs

## Job Number 104447

Prepared for ARKANSAS INDUSTRIAL MACHINERY

3804 N. NONA ST NORTH LITTLE ROCK AR 72118

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AC Inspection as Found - LR MOTOR SHOP



#### AC Inspection as Found

ARKANSAS INDUSTRIAL MACHINERY

3804 N. NONA ST

NORTH LITTLE ROCK, AR 72118

#### AC Inspection - Rev. 2

Location:	LR MOTOR SHOP	
Serial Number:	3GV1311195936002	

Description:100 HP ABB

Hi-Speed Job Number:	104447
Manufacturer:	ABB
Product Number:	M3AA225SME2
Spec/ID #:	1080417524
Serial Number:	3GV1311195936002
HP/kW:	100 (HP)
RPM:	3570 (RPM)
Voltage:	460
Current:	119 (Amps)
Phase:	Three
Hz:	60 (Hz)
Service Factor:	1.25
Enclosure:	TEFC
# of Leads:	6
J-box Included:	None
Coupling/Sheave:	Coupling
Bearing RTDs:	No
Stator RTDs:	No
Repair Stage:	Final
Rewind:	No
Shaft Machined Fit Repairs Required:	No
Bearing Housing Machined Fit Repairs Required:	Yes
Heaters:	No
Winding Type :	Random Wound
Bearing Type:	Rolling Element
20 - Good	

FolderID: 104447 FormID: 24101160

#### Priorities Found: 🛑 1 - High

gh 🛛 🛑 1 - Medium

**Overall Condition** 

1. Report Date

#### 2. Nameplate Picture



3. 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

inches



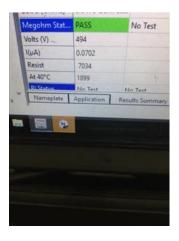




	6.	Is this a UL Listed Motor	(No) No
	7.	Is the motor water cooled or can be pressure checked before teardown	(No) No
In	itial	Mechanical/Electrical	
	8.	Does Shaft Turn Freely?	(Y) Yes
	9.	Does the shaft require T.I.R in Lathe to identify additional repairs?	(No) No
	10.	Does Shaft Have Visible Damage?	(No) No
	11.	Assembled Shaft Runout	0.001 Inches
	12.	Assembled Shaft End Play	inches
	13.	Air Gap Variation <10%	
	14.	Lead Condition	(P) Pass
	15.	Lead Length	64 Inches
	16.	Does it have Lugs?, If so what is the Stud Size?	(No) No
	17.	Lead Numbers	U1-V1-W1-U2-V2-W2
	18.	Are the Leads insulated with Chico or other material	(No) No
	19.	Frame Condition	
	20.	Fan Condition	(P) Pass
	21.	Does motor have internal fan?	(No) No
	22.	Broken or Missing Components	
	•	Fan cover bolt brackets	
In	itial	Electrical Inspection	
	23.	Insulation Resistance/Megger	Megohms

23. Insulation Resistance/Megger

Megohms



24.	Winding Resistance		
	1-2	1-3	2-3
	Dhms) Ohms) Ohms) Ohms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Obms) Ob	1-3	2-3 (P) Pass
26. 27.	Number of Stator Slots Stator Condition		48
28.	Stator Thermistors/Ohms		
	Stator Overloads/Ohms		
	anical Inspection		
	Drive End Bearing Brand		NSK
31.			6212-c4
32.			1
33.			(Ball) Ball Bearing
34.			(Grease) Grease Lubricated
35.		ading Device?	
36.	-	-	
50.			

Spacer

#### 37. Drive End Bearing Condition

#### Chemical burn



38.	Opposite Drive End Bearing Brand	NSK
39.	Opposite Drive End Bearing Number-	6212-c4
40.	Opposite Drive End Bearing Qty.	1
41.	Opposite Drive End Bearing Type	(Ball) Ball Bearing
42.	Opposite Drive End Lubrication Type	(Grease) Grease Lubricated
43.	Opposite Drive End Bearing Insulation or Grounding Device?	
44.	Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?	wavy washer
45.	Opposite Drive End Bearing Condition	
	Contamination	



46.	Drive End Seal	
47.	Opposite Drive End Seal	
Rotor	Inspection	
48.	Rotor Type/Material	(Squirrel Aluminum) Squirrel Cage Aluminum Die Cast
49.	Growler Test	(Pass) Pass
50.	Number of Rotor Bars	40
51.	Rotor Condition	
52.	List the Parts needed for the Repair Below	
	6212 C2 x2	

Min

Ν	Mechanical Fits- Rotor					
	54.	Shaft Runout			inches	
	55.	Rotor Runout				
		Drive End Bearing Fit	Rotor Body	Opposite Drive End B	earing	
	56	Coupling Fit Closest to Bearing Housi	ng la			
	00.	0 Degrees	90 Degrees	120 Degrees		
		0 Degrees	30 Degrees	120 Degrees		
	57.	Coupling Fit Closest to the end of the	Shaft			
		0 Degrees	60 Degrees	120 Degrees		
	58.	Drive End Bearing Shaft Fit				
		0 Degrees	60 Degrees	120 Degrees		
		2.3627-2.3627-2.3627				
	59.	Drive End Bearing Shaft Fit Condition			(P) Pass	
		Opposite Drive End Bearing Shaft Fit			(*)*****	
		0 Degrees	60 Degrees	120 Degrees		
		5	5	5		
		2.3625-2.3624-2.3625				
۲	61.		Condition		(P) Pass	
	62.	Shaft Air Seal Fits				
		Drive End Air Seal	Opposite Drive End Air Seal			
R/	loob	pricel Eite Bearing Housings				
IV		anical Fits- Bearing Housings Drive End - Endbell Bearing Fit				
	03.	-	60 Degrees	120 Degrees		
		0 Degrees	oo Degrees	120 Degrees		
		4.3308-4.3308-4.3308				
	64.	Drive End - Endbell Bearing Fit Condi	tion		(P) Pass	
	65.	Opposite Drive End - Endbell Bearing	Fit			
		0 Degrees	60 Degrees	120 Degrees		
	•	4.3329-4.3308-4.3317				
	66.	Opposite Drive End - Endbell Bearing	Fit Condition		(F) Fail	
	67.	Bearing Cap Condition	Opposite Drive Fred Descript Con			
		Drive End Bearing Cap	Opposite Drive End Bearing Cap			
	68.	End Bell Air Seal Fits				
		Drive End Air Seal	Opposite Drive End Air Seal			
	69.	List Machine Work Needed Below				
		ODE end bell bearing fit				

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	Co sign: DM	
Root	Cause of Failure	
71.	Failure locations	
	Bearings and ODE end bell bearing fit	
72.	Root cause of failure	
	Contamination and wear	
Dyna	nic Balance Report	
73.	Rotor Weight and Balance Grade	
	Rotor Weight	Balance Grade
74.	Initial Balance Readings	
	Drive End	Opposite Drive End



75. Final Balance Readings Drive End **Opposite Drive End** 



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#### Mechanical Fits- Bearing Housings - Post Repair

		-	
77.	Drive End - Endbell Bearing Fit Post F	Repair	
	0 Degrees	60 Degrees	120 Degrees
78.	Opposite Drive End - Endbell Bearing	Fit Post Repair	
	0 Degrees	60 Degrees	120 Degrees
	4.331	4.331	4.331



79.	Bearing Cap Condition Post Repair		
	Drive End Bearing Cap	Opposite Drive End Bearing Cap	
80.	End Bell Air Seal Fits Post Repair		
	Drive End Air Seal	Opposite Drive End Air Seal	
81.	End Bell Repair Sign-off		Gary
Asser	nbly		
82.	QC Check All Parts for Cleanliness I	Prior to Assembly	Cw
	1 per		

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Cw

83. Photograph All Major Components prior to assembly







84. Final Insulation Resistance Test







Megohms



85. Assembled Shaft Endplay			inches
86. Assembled Shaft Runout			inches
87. Test Run Voltage			
Volts	Volts	Volts	



 88. Test Run Amperage

 Amps
 Amps

 Witnessed by TRH



89.	89. Drive End Vibration Readings - Inches Per Second		
	Horizontal	Vertical	Axial
90.	Opposite Drive End Vibration Reading	gs - Inches Per Second	
	Horizontal	Vertical	Axial
91.	Ambient Temperature - Fahrenheit		
92.	Drive End Bearing Temps - Fahrenheit	it	
	5 Minutes	10 Minutes	15 Minutes
93.	Opposite Drive End Bearing Temps -	Fahrenheit	
	5 Minutes	10 Minutes	15 Minutes

94. Document Final Condition with Pictures after paint





95. Final Pics and QC Review

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Co sign: TRH



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