

LR Motor Shop Repairs

Job Number 104387

Prepared for CERTAINTEED (10520)

2701 E ROOSEVELT ROAD LITTLE ROCK AR 72206

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AC Inspection as Found - LR Motor Shop

AC Inspection - Rev. 2: E3-1026

1.0





AC Inspection as Found CERTAINTEED (10520) 2701 E ROOSEVELT ROAD

LITTLE ROCK, AR 72206

FolderID: 104387 FormID: 23931932

AC Inspection - Rev. 2

Location: LR Motor Shop Serial Number: E3-1026

Description: 2.5 HP SHAKER MOTOR

Hi-Speed Job Number:	104387
Manufacturer:	Other
Product Number:	L3-5-36-460-6-001
Serial Number:	E3-1026
HP/kW:	2.5 (HP)
RPM:	3600 (RPM)
Voltage:	Other
Current:	4.1 (Amps)
Phase:	Three
Hz:	60 (Hz)
Service Factor:	1.0
Enclosure:	TENV
# of Leads:	3
J-box Included:	Complete
Coupling/Sheave:	None
Date Received:	04/01/2025
Bearing RTDs:	No
Stator RTDs:	No
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: 1 - High

10 - Good

Overall Condition

1. Report Date 04/01/2025

2. Photos of all six sides of the machine.



















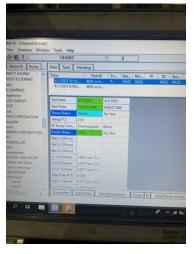




- Describe the Overall Condition of the Equipment as Received Needs bearings and recondition
- 4. Is this a UL Listed Motor
- 5. Is the motor water cooled or can be pressure checked before teardown
- 6. Nameplate Picture

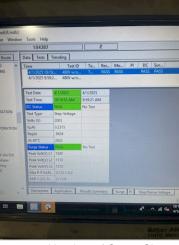


Initia	al Mechanical/Electrical			
7 .	. Does Shaft Turn Freely?			(Y) Yes
8.	. Does the shaft require T.I.R in Lathe	to identify additional repairs?		(No) No
9.	. Does Shaft Have Visible Damage?			(No) No
• 10). Assembled Shaft Runout			0.001 Inches
11	Assembled Shaft End Play			inches
12	2. Air Gap Variation <10%			na
• 13	3. Lead Condition			(P) Pass
14	1. Lead Length			5 Inches
15	5. Does it have Lugs?, If so what is the	Stud Size?		(No) No
16	6. Lead Numbers			123
17	7. Are the Leads insulated with Chico or	other material		
18	3. Frame Condition			Good
19	9. Fan Condition			(N) NA
20). Does motor have internal fan?			(No) No
21	Broken or Missing Components			missing bolt
Initia	al Electrical Inspection			
22	2. Insulation Resistance/Megger			5959 Megohms
23	Winding Resistance			
	1-2	1-3	2-3	
	5.4	5.4	5.4	



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The same	Eaker AV STATIC MOTE		
25.	Number of Stator Slots	36	
26.	Stator Condition	Recondition	
27.	Stator Thermistors/Ohms		
28.	Stator Overloads/Ohms	0.3	
Mech	anical Inspection		
29.	Drive End Bearing Brand	SKF	
30.	Drive End Bearing Number-	NJ2213 ecp/c4	
31.	Drive End Bearing Qty.	1	
32.	Drive End Bearing Type	(Roller) Roller Bearing	
33.	Drive End Lubrication Type	(Grease) Grease Lubricated	
34.	Drive End Bearing Insulation or Grounding Device?		
35.	Drive End Wavy Washer/Snap-Ring Other Retention Device?		
36.	Drive End Bearing Condition	worn	
37.	Opposite Drive End Bearing Brand	SKF	
38.	Opposite Drive End Bearing Number-	NJ2213 ecp/c4	
39.	Opposite Drive End Bearing Qty.	1	
40.	Opposite Drive End Bearing Type	(Roller) Roller Bearing	
41.	Opposite Drive End Lubrication Type	(Grease) Grease Lubricated	
42.	Opposite Drive End Bearing Insulation or Grounding Device?		
43.	Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?		
44.	Opposite Drive End Bearing Condition	worn	
45.	Drive End Seal		
46.	Opposite Drive End Seal		
Rotor	Inspection		
47.	Rotor Type/Material	(Copper Barred) Copper Barred Rotor	
48.	Growler Test	(Pass) Pass	
49.	Number of Rotor Bars	44	
50.	Rotor Condition	Good	
51.	List the Parts needed for the Repair Below		
	2- NJ2213 ECP/C4		

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52. Signature of Technician that Disassembled Motor	Trevor Hall
/-//	

	/				
IV	lecha	anical Fits- Rotor			
	53.	Shaft Runout		0.00	1 inches
	54.	Rotor Runout			
		Drive End Bearing Fit	Rotor Body	Opposite Drive End B	earing
	55.	Coupling Fit Closest to Bearing Housing			
		0 Degrees	90 Degrees	120 Degrees	
	56	Coupling Fit Closest to the end of the	Shaft		
	50.	0 Degrees	60 Degrees	120 Degrees	
		o Degrees	oo begrees	120 Degrees	
	57.	Drive End Bearing Shaft Fit			
		0 Degrees	60 Degrees	120 Degrees	
		2.5593	2.5593	2.5593	
	58.	Drive End Bearing Shaft Fit Condition			(P) Pass
	59.	Opposite Drive End Bearing Shaft Fit			
		0 Degrees	60 Degrees	120 Degrees	
		2.5594	2.5594	2.5594	
		Opposite Drive End Bearing Shaft Fit	Condition		(P) Pass
	61.	Shaft Air Seal Fits			
		Drive End Air Seal	Opposite Drive End Air Seal		
		good	good		
N		anical Fits- Bearing Housings			
	62.	Drive End - Endbell Bearing Fit			
		0 Degrees	60 Degrees	120 Degrees	
		4.72	4.7244	4.7244	
		Drive End - Endbell Bearing Fit Condition			(P) Pass
	64.	Opposite Drive End - Endbell Bearing			
		0 Degrees	60 Degrees	120 Degrees	
		4.7244	4.7244	4.7244	
		Opposite Drive End - Endbell Bearing	Fit Condition		(P) Pass
	66.	Bearing Cap Condition			
		Drive End Bearing Cap	Opposite Drive End Bearing Cap		
	07	good	good		
	67.	End Bell Air Seal Fits	Occasion Britan Estation		
		Drive End Air Seal	Opposite Drive End Air Seal		
		good	good		
	68.				
		None			

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69. Technician Trevor Hall



Co-sign TRH

Root Cause of Failure

70. Failure locations

Bearings

71. Root cause of failure Normal wear

Dynamic Balance Report

72. Rotor Weight and Balance Grade

Rotor Weight Balance Grade

73. Initial Balance Readings

Drive End Opposite Drive End

74. Final Balance Readings

Drive End Opposite Drive End

75. Technician Trevor Hall

/_JM

Assembly

76. QC Check All Parts for Cleanliness Prior to Assembly

Trevor Hall

77. Photograph All Major Components prior to assembly





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78.	Final Insulation Resistance Test		2000 Megohms
79.	Assembled Shaft Endplay		inches
80.	Assembled Shaft Runout		inches
81.	Test Run Voltage		
	Volts	Volts	Volts
	460	460	460
82.	Test Run Amperage		
	Amps	Amps	Amps
	2.8	2.6	2.8
83.	Drive End Vibration Readings - In	nches Per Second	
	Horizontal	Vertical	Axial
84.	Opposite Drive End Vibration Re	adings - Inches Per Second	
	Horizontal	Vertical	Axial
85.	Ambient Temperature - Fahrenhe	eit	
86.	Drive End Bearing Temps - Fahr	enheit	
	5 Minutes	10 Minutes	15 Minutes
87.	Opposite Drive End Bearing Tem	ps - Fahrenheit	
	5 Minutes	10 Minutes	15 Minutes
88.	Document Final Condition with P	ictures after paint	Ready
89.	Final Pics and QC Review		Trevor Hall

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