

# LR Motor Shop Repairs

# **Job Number 104260**

Prepared for 3M-Main Plant (10001) / CBRE (12815)

3100 Walter Road Little Rock AR 72216

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AC Inspection as Found - LR MOTOR SHOP

AC Inspection - Rev. 2: OFG082035

1.0





### **AC Inspection as Found** 3M-Main Plant (10001) / CBRE (12815) 3100 Walter Road

Little Rock, AR 72216

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#### AC Inspection - Rev. 2

LR MOTOR SHOP Location: Serial Number: OFG082035

Description: 100 HP G.E.

Hi-Speed Job Number:	104260
Manufacturer:	GE
Product Number:	5KG509SN600P
Serial Number:	OFG082035
HP/kW:	100 (HP)
RPM:	595 (RPM)
Frame:	509Z
Voltage:	460
Current:	134 (Amps)
Phase:	Three
Hz:	60 (Hz)
Service Factor:	1.15
Enclosure:	TE
# of Leads:	3
J-box Included:	Half
Coupling/Sheave:	None
Date Received:	03/10/2025
Bearing RTDs:	No
Stator RTDs:	No
Repair Stage:	Final
Rewind:	No
Shaft Machined Fit Repairs Required:	Yes
Bearing Housing Machined Fit Repairs Required:	Yes
Heaters:	No
Winding Type :	Random Wound
Bearing Type:	Rolling Element

Priorities Found: 1 - High





10 - Good

### **Overall Condition**

03/12/2025 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





Initial Mechanical/Electrical

5. Does Shaft Turn Freely?

6. Does the shaft require T.I.R in Lathe to identify additional repairs?

7. Does Shaft Have Visible Damage?

8. Assembled Shaft Runout

Shaft broke

9. Assembled Shaft End Play10. Air Gap Variation <10%</li>



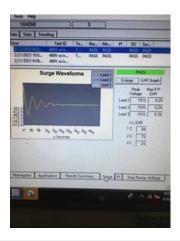


12.	Lead Length	18 Inches
13.	Does it have Lugs?, If so what is the Stud Size?	(No) No
14.	Lead Numbers	123
15.	Frame Condition	pass
16.	Fan Condition	(P) Pass



<ul><li>17.</li></ul>	Does motor have internal fan?		(No) No		
18.	Broken or Missing Components		broken shaft		
Initial	Initial Electrical Inspection				
19.	Insulation Resistance/Megger		7960 Megohms		
20.	Winding Resistance				
	1-2	1-3	2-3		
	0.0471	0.0471	0.0472		

# 21. Perform Surge Test



22. Number of Stator Slots

23. Stator Condition wash and dry





24. Stator Thermistors/Ohms	na
25. Stator Overloads/Ohms	na
Mechanical Inspection	
26. Drive End Bearing Brand	FAG
27. Drive End Bearing Number-	NU 320-E-XL-M1-C3



28. Drive End Bearing Qty.

1

(P) Pass

29. Drive End Bearing Type	(Roller) Roller Bearing
30. Drive End Lubrication Type	(Grease) Grease Lubricated
31. Drive End Bearing Insulation or Grounding Device?	no
32. Drive End Wavy Washer/Snap-Ring Other Retention Device?	no
33. Drive End Bearing Condition	normal wear



34. Opposite Drive End Bearing Brand	FAG
35. Opposite Drive End Bearing Number-	6315 C3



36. Opposite Drive End Bearing Qty.	1
37. Opposite Drive End Bearing Type	(Ball) Ball Bearing
38. Opposite Drive End Lubrication Type	(Grease) Grease Lubricated
39. Opposite Drive End Bearing Insulation or Grounding Device?	no
40. Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?	snap ring
41. Opposite Drive End Bearing Condition	normal wear



42. Drive End Seal

43. Opposite Drive End Seal

Na

#### **Rotor Inspection**

44. Rotor Type/Material

(Squirrel Aluminum) Squirrel Cage Aluminum Die Cast



45. Growler Test (Pass) Pass

46. Number of Rotor Bars

Na

47. Rotor Condition pass

48. List the Parts needed for the Repair Below New shaft

49. Signature of Technician that Disassembled Motor

RW

**Mechanical Fits- Rotor** 

50. Shaft Runout inches

Na

	51.	Rotor Runout		
		Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing
	•	Na		
	52.	3	•	
		0 Degrees	90 Degrees	120 Degrees
	_	A.L.		
	<b>F</b> 0	Na	Olfi	
	53.	1 0		100 5
		0 Degrees	60 Degrees	120 Degrees
		Na		
	54.			
	J <del>-1</del> .	0 Degrees	60 Degrees	120 Degrees
		0 Degrees	60 Degrees	120 Degrees
		Na		
	55.			(NA) Not Applicable
		Drive End Bearing Shaft Fit Condition		(NA) Not Applicable
	55.	Drive End Bearing Shaft Fit Condition		(NA) Not Applicable 120 Degrees
	55.	Drive End Bearing Shaft Fit Condition Opposite Drive End Bearing Shaft Fit 0 Degrees		
	55.	Drive End Bearing Shaft Fit Condition Opposite Drive End Bearing Shaft Fit 0 Degrees Na	60 Degrees	120 Degrees
	55. 56. 57.	Drive End Bearing Shaft Fit Condition Opposite Drive End Bearing Shaft Fit 0 Degrees  Na Opposite Drive End Bearing Shaft Fit	60 Degrees	
•	55. 56. 57.	Drive End Bearing Shaft Fit Condition Opposite Drive End Bearing Shaft Fit 0 Degrees Na	60 Degrees	120 Degrees
•	55. 56. 57.	Drive End Bearing Shaft Fit Condition Opposite Drive End Bearing Shaft Fit 0 Degrees  Na Opposite Drive End Bearing Shaft Fit	60 Degrees	120 Degrees
	55. 56. 57. 58.	Drive End Bearing Shaft Fit Condition Opposite Drive End Bearing Shaft Fit 0 Degrees  Na Opposite Drive End Bearing Shaft Fit Shaft Air Seal Fits Drive End Air Seal	60 Degrees  Condition	120 Degrees
	55. 56. 57. 58.	Drive End Bearing Shaft Fit Condition Opposite Drive End Bearing Shaft Fit 0 Degrees  Na Opposite Drive End Bearing Shaft Fit Shaft Air Seal Fits Drive End Air Seal  Na	60 Degrees  Condition	120 Degrees
•	55. 56. 57. 58.	Drive End Bearing Shaft Fit Condition Opposite Drive End Bearing Shaft Fit 0 Degrees  Na Opposite Drive End Bearing Shaft Fit Shaft Air Seal Fits Drive End Air Seal  Na anical Fits- Bearing Housings	60 Degrees  Condition	120 Degrees
N	55. 56. 57. 58.	Drive End Bearing Shaft Fit Condition Opposite Drive End Bearing Shaft Fit 0 Degrees  Na Opposite Drive End Bearing Shaft Fit Shaft Air Seal Fits Drive End Air Seal  Na anical Fits- Bearing Housings Drive End - Endbell Bearing Fit	60 Degrees  Condition  Opposite Drive End Air Seal	120 Degrees  (NA) Not Applicable
• N	55. 56. 57. 58.	Drive End Bearing Shaft Fit Condition Opposite Drive End Bearing Shaft Fit 0 Degrees  Na Opposite Drive End Bearing Shaft Fit Shaft Air Seal Fits Drive End Air Seal  Na anical Fits- Bearing Housings	60 Degrees  Condition	120 Degrees



60. Drive End - Endbell Bearing Fit Condition

(P) Pass

61. Opposite Drive End - Endbell Bearing Fit		
0 Degrees	60 Degrees	120 Degrees
6.2998	6.2998	6.2998



62.	Opposite Drive End - Endbell Bearing	Fit Condition	(P) Pass
63. Bearing Cap Condition			
	Drive End Bearing Cap	Opposite Drive End Bearing Cap	
	pass		



64.	End Bell Air Seal Fits		
	Drive End Air Seal	Opposite Drive End Air Seal	
	bad	pass	
65.	List Machine Work Needed Below New shaft DE air seal also the ode baffle	e needs repaired	
66.	Technician		RW

# **Root Cause of Failure**

Co sign TRH

67. Failure locations

Out put shaft broke behind bearing

60	Root cause of failure			
00.	Belts to tight breaking shaft and rubbin	a air soal		
Dymar		y ali seai		
-	ynamic Balance Report			
69.	Rotor Weight and Balance Grade	Dalares Orașile		
	Rotor Weight	Balance Grade		
70.	Initial Balance Readings			
	Drive End	Opposite Drive End		
	2.110 2.110	opposite Birre Elia		
71.	Final Balance Readings			
	Drive End	Opposite Drive End		
	Technician			
	anical Fits- Rotor - Post Repair			
	Shaft Runout Post Repair			
74.	Rotor Runout Post Repair			
	Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing	
75	Coupling Fit Closest to Bearing Housi	ng Poet Panair		
70.	0 Degrees	90 Degrees	120 Degrees	
	0 Degrees	30 Degrees	120 Deglees	
76.	Coupling Fit Closest to the end of the	Shaft Post Repair		
	0 Degrees	60 Degrees	120 Degrees	
	•	9	· ·	
77.	Drive End Bearing Shaft Fit Post Rep	air		
	0 Degrees	60 Degrees	120 Degrees	
78	Opposite Drive End Bearing Shaft Fit	Poet Ranair		
70.	0 Degrees	60 Degrees	120 Degrees	
	o Degrees	00 Degrees	120 Degrees	
79.	Shaft Air Seal Fits Post Repair			
	Drive End Air Seal	Opposite Drive End Air Seal		
	Shaft Repair Sign-off			
	anical Fits- Bearing Housings - P	•		
81.	Drive End - Endbell Bearing Fit Post F			
	0 Degrees	60 Degrees	120 Degrees	
82	Opposite Drive End - Endbell Bearing	Fit Post Renair		
02.	0 Degrees	60 Degrees	120 Degrees	
	o Dogicos	oo Dogicoo	120 Dog1003	
83.	Bearing Cap Condition Post Repair			
	Drive End Bearing Cap	Opposite Drive End Bearing Cap		
84.	End Bell Air Seal Fits Post Repair			
	Drive End Air Seal	Opposite Drive End Air Seal		
85	End Bell Repair Sign-off			
Asser	· · · · · ·			
73361				

86.	QC Check All Parts for Cleanliness Prior to Assembly		
87.			
88.	Final Insulation Resistance Test		
89.	Assembled Shaft Endplay		
	Assembled Shaft Runout		
91.	Test Run Voltage		
	Volts	Volts	Volts
92.	Test Run Amperage		
	Amps	Amps	Amps
93.	Drive End Vibration Readings - Inches Per Second		
	Horizontal	Vertical	Axial
0.4	Opposite Drive Ford Vibration Deadin	ra Jashar Day Casand	
94.	Opposite Drive End Vibration Readings - Inches Per Second		
	Horizontal	Vertical	Axial
95	Ambient Temperature - Fahrenheit		
	Drive End Bearing Temps - Fahrenheit		
00.	5 Minutes	10 Minutes	15 Minutes
	o windtes	10 Militates	TO Militates
97.	Opposite Drive End Bearing Temps - Fahrenheit		
	5 Minutes	10 Minutes	15 Minutes
98.	Document Final Condition with Pictures after paint		
99.	Final Pics and QC Review		

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