

# LR Motor Shop Repairs

## **Job Number 104164**

Prepared for HMS MFG (12553)

6901 Lindsey Road Little Rock AR 72206

### **Table of Contents**

AC Inspection as Found - LR MOTOR SHOP

AC Inspection - Rev. 2: F1907265330

1.0



Hi-Speed Industrial Service 7030 Ryburn Dr Millington, Tn 38053 901-873-5300

> FolderID: 104164 FormID: 23424601

### **AC Inspection as Found** HMS MFG (12553)

6901 Lindsey Road Little Rock, AR 72206

AC Inspection - Rev. 2

Location: LR MOTOR SHOP

Serial Number: F1907265330

Description:12 HP GARDNER DENVER

Hi-Speed Job Number:	104164
Manufacturer:	Gardner Denver
Product Number:	37N765R517G2
Serial Number:	F1907265330
HP/kW:	12 (HP)
RPM:	3460 (RPM)
Frame:	215TC
Voltage:	230 / 460
Current:	28/14
Phase:	Three
Hz:	60 (Hz)
Service Factor:	1.15
Enclosure:	TEFC
# of Leads:	9
J-box Included:	Complete
Coupling/Sheave:	None
Date Received:	02/17/2025
Bearing RTDs:	No
Stator RTDs:	No
Rewind:	Yes
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: 10 - High

9 - Good

#### **Overall Condition**

1. Report Date 02/18/2025

#### 2. Nameplate Picture



#### 3. Photos of all six sides of the machine.























	4.	Describe the Overall Condition of the			
		Dirty, locked up, fan cover removed, an	d fan melted		
Ini	itial	Mechanical/Electrical			
	5.	Does Shaft Turn Freely?			(N) No
	6.	Does the shaft require T.I.R in Lathe	to identify additional repairs?		(No) No
	7.	Does Shaft Have Visible Damage?			(No) No
	8.	Assembled Shaft Runout			Inches
	9.	Assembled Shaft End Play			inches
	10.	Air Gap Variation <10%			
	11.	Lead Condition			(F) Fail
	12.	Lead Length			12 Inches
	13.	Does it have Lugs?, If so what is the	Stud Size?		(No) No
	14.	Lead Numbers			1-9
	15.	Frame Condition			
	16.	Fan Condition			(F) Fail
	17.	Does motor have internal fan?			(No) No
	18.	Broken or Missing Components			na
Ini	itial	Electrical Inspection			
	19.	Insulation Resistance/Megger			Megohms
	20.	Winding Resistance			
		1-2	1-3	2-3	
	21.	9		(1	NA) Not Applicable
	7	Blown			
	22.	Number of Stator Slots			36
	23.	Stator Condition			core damage
	24.	Stator Thermistors/Ohms			
	25.	0.			
Me	echa	anical Inspection			
	26.	Drive End Bearing Brand			fag

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28. Drive End Bearing Qty.	1
29. Drive End Bearing Type	(Ball) Ball Bearing
30. Drive End Lubrication Type	(Grease) Grease Lubricated
31. Drive End Bearing Insulation or Grounding Device?	
32. Drive End Wavy Washer/Snap-Ring Other Retention Device?	
Spacer	



33. Drive End Bearing Condition

Contamination



#### 34. Opposite Drive End Bearing Brand

nachi

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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?	
40.	Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?	
41.	Opposite Drive End Bearing Condition	
-	Water contamination	



42.	Prive End Seal
43	Opposite Drive End Seal

Rotor Inspection			
44.	Rotor Type/Material	(Squirrel Aluminum) Squirrel Cage Aluminum Die Cast	
45.	Growler Test	(Pass) Pass	
46.	Number of Rotor Bars	28	
<b>47</b> .	Rotor Condition		

48. List the Parts needed for the Repair Below 6307 6206 6206 bearing sleeve

	43.	Signature of reclinician that bisasser		CW
		Mund		
M	echa	nical Fits- Rotor		
	50.	Shaft Runout		inches
	51.	Rotor Runout		
		Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing
	52.	Coupling Fit Closest to Bearing Housi	ng	
		0 Degrees	90 Degrees	120 Degrees
	53.	Coupling Fit Closest to the end of the	Shaft	
		0 Degrees	60 Degrees	120 Degrees
	54.	Drive End Bearing Shaft Fit		
		0 Degrees	60 Degrees	120 Degrees
			-	-
	<b>—</b>	1.3781-1.3781		(2)
	55.	Drive End Bearing Shaft Fit Condition		(P) Pass
	56.	Opposite Drive End Bearing Shaft Fit	00 B	100 D
		0 Degrees	60 Degrees	120 Degrees
	-	1.1813-1.1813-1.1813		
	57.	Opposite Drive End Bearing Shaft Fit	Condition	(P) Pass
	58.	Shaft Air Seal Fits		
		Drive End Air Seal	Opposite Drive End Air Seal	
N/I	ochs	nical Fits- Bearing Housings		
IVI		Drive End - Endbell Bearing Fit		
	00.	0 Degrees	60 Degrees	120 Degrees
		_	ŭ	
	•	3.1497-3.1502-3.1499		
	60.	Drive End - Endbell Bearing Fit Condi		(P) Pass
	61.	Opposite Drive End - Endbell Bearing		
		0 Degrees	60 Degrees	120 Degrees
	-	Excessive wear		
	62.	Opposite Drive End - Endbell Bearing	Fit Condition	(F) Fail
	63.	Bearing Cap Condition		
		Drive End Bearing Cap	Opposite Drive End Bearing Cap	
	64.	End Bell Air Seal Fits		
		Drive End Air Seal	Opposite Drive End Air Seal	

Cw

49. Signature of Technician that Disassembled Motor

65. List Machine Work Needed Below

ODE end bell bearing fit and air gap and ODE shaft repair

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66. Technician Cw

(frai

Co sign: TRH

#### **Root Cause of Failure**

67. Failure locations

Windings, iron, ODE end bell bearing fit, ODE end bell air gap, ODE shaft air gap fit, and bearings

68. Root cause of failure

ODE bearing locked up due to contamination taking bearing fit down dropping rotor to the iron and taking out the windings

#### **Dynamic Balance Report**

69. Rotor Weight and Balance Grade

Rotor Weight Balance Grade

70. Initial Balance Readings

Drive End Opposite Drive End

71. Final Balance Readings

Drive End Opposite Drive End

72. Technician

#### Rewind

73. Core Test Results - Watts loss per Pound

Pre-Burnout Post Burnout

74. Core Hot Spot Test

Pre-Burnout Post-Burnout

- 75. Post Rewind Electrical Test-Insulation Resistance
- 76. Post Rewind Polarization Index
- 77. Post Rewind Winding Resistance

1-2 1-3 2-3

- 78. Post Rewind Surge Test
- 79. Post Rewind Hi-Pot
- 80. Technician

#### Mechanical Fits- Rotor - Post Repair

- 81. Shaft Runout Post Repair
- 82. Rotor Runout Post Repair

Drive End Bearing Fit Rotor Body Opposite Drive End Bearing

83. Coupling Fit Closest to Bearing Housing Post Repair

0 Degrees 90 Degrees 120 Degrees

84. Coupling Fit Closest to the end of the Shaft Post Repair

0 Degrees 60 Degrees 120 Degrees

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85.	Drive End Bearing Shaft Fit Post Repa	air	
	0 Degrees	60 Degrees	120 Degrees
86.	Opposite Drive End Bearing Shaft Fit	Post Repair	
	0 Degrees	60 Degrees	120 Degrees
0.7	Chaft Air Coal Fite Boot Boneiu		
07.	Shaft Air Seal Fits Post Repair	Opposite Drive Ford Air Cool	
	Drive End Air Seal	Opposite Drive End Air Seal	
88.	Shaft Repair Sign-off		
	anical Fits- Bearing Housings - P	ost Repair	
	Drive End - Endbell Bearing Fit Post F	•	
	0 Degrees	60 Degrees	120 Degrees
		3	
90.	Opposite Drive End - Endbell Bearing	Fit Post Repair	
	0 Degrees	60 Degrees	120 Degrees
91.	Bearing Cap Condition Post Repair		
	Drive End Bearing Cap	Opposite Drive End Bearing Cap	
02	End Bell Air Seal Fits Post Repair		
32.	Drive End Air Seal	Opposite Drive End Air Seal	
	Drive Eriu Ali Seai	Opposite Drive End All Seal	
93.	End Bell Repair Sign-off		
Assen	nbly		
	QC Check All Parts for Cleanliness Pr	rior to Assembly	
95. Photograph All Major Components prior to assembly			
96.	Final Insulation Resistance Test		
97.	Assembled Shaft Endplay		
98.	Assembled Shaft Runout		
99.	Test Run Voltage		
	Volts	Volts	Volts
100.	Test Run Amperage		•
	Amps	Amps	Amps
101	Drive End Vibration Readings - Inches	s Per Second	
101.	Horizontal	Vertical	Axial
	Tionzomai	Vortion	/ Widi
102.	Opposite Drive End Vibration Reading	gs - Inches Per Second	
	Horizontal	Vertical	Axial
	3. Ambient Temperature - Fahrenheit		
104.	Drive End Bearing Temps - Fahrenhe		
	5 Minutes	10 Minutes	15 Minutes
105	Opposite Drive End Bearing Towns	Eahranhait	
105.	Opposite Drive End Bearing Temps -		15 Minutos
	5 Minutes	10 Minutes	15 Minutes

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106.	Document Final Condition with Pictures after paint
107.	Final Pics and QC Review



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