

AC Inspection as Found Saint Jean Industries, Inc. (11653)

424 Industrial Park Road Heber Springs, AR 72543

FolderID: 104695 FormID: 24607809

### AC Inspection - Rev. 2

LR MOTOR SHOP Location:

Serial Number: P0212 Description:300 HP NEMA

Hi-Speed Job Number:	104695
Manufacturer:	Other
Product Number:	127466Y017
Spec/ID #:	18D051X124
Serial Number:	P0212
HP/kW:	300 (HP)
RPM:	1750 (RPM)
Frame:	447T
Voltage:	460
Current:	358 (Amps)
Phase:	Three
Hz:	60 (Hz)
Service Factor:	1.15
Enclosure:	ODP
# of Leads:	6
J-box Included:	None
Coupling/Sheave:	None
Date Received:	05/29/2025
Bearing RTDs:	No
Stator RTDs:	No
Repair Stage:	Final
Rewind:	Yes
Shaft Machined Fit Repairs Required:	No
Bearing Housing Machined Fit Repairs Required:	Yes
Heaters:	No
Winding Type :	Random Wound
Bearing Type:	Rolling Element

Priorities Found: **a** 2 - High

14 - Good

**Overall Condition** 

o

Report Date

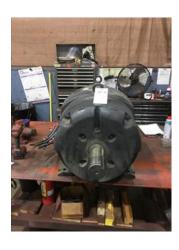
06/03/2025





3. Photos of all six sides of the machine.





























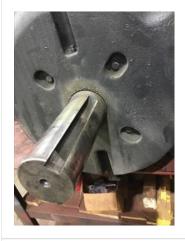




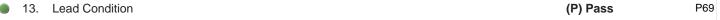




	4.	Describe the Overall Condition of the Equipment as Received Serviceable		
	5.	Is this a UL Listed Motor	(No) No	
	6.	Is the motor water cooled or can be pressure checked before teardown	(No) No	
In	itial I	Mechanical/Electrical	Ō	
	7.	Does Shaft Turn Freely?	(Y) Yes	
	8.	Does the shaft require T.I.R in Lathe to identify additional repairs?	(No) No	
	9.	Does Shaft Have Visible Damage?	(No) No	P26



10.	Assembled Shaft Runout	0.001 Inches
11.	Assembled Shaft End Play	0 inches
12.	Air Gap Variation <10%	





	14.	Lead Length	16 Inches
	15.	Does it have Lugs?, If so what is the Stud Size?	(No) No
	16.	Lead Numbers	1-3
	17.	Are the Leads insulated with Chico or other material	(No) No
	18.	Frame Condition	pass
	19.	Fan Condition	(N) NA
	20.	Does motor have internal fan?	(No) No
	21.	Broken or Missing Components	connection box
In	itial E	Electrical Inspection	Ō
	22	Inculation Posistance/Maggar	Magahma

22. Insulation Resistance/Megger
23. Winding Resistance
1-2
1-3
2-3

24. Perform Surge Test
(NA) Not Applicable
P57



25. Number of Stator Slots 60



- 27. Stator Thermistors/Ohms
- 28. Stator Overloads/Ohms

## **Mechanical Inspection**

0

- 29. Drive End Bearing Brand
- 30. Drive End Bearing Number-

6319 2Z/C3

Fag

P32



31. Drive End Bearing Qty.

1

(Ball) Ball Bearing

P51

32. Drive End Bearing Type





33. Drive End Lubrication Type

(Grease) Grease Lubricated

34. Drive End Bearing Insulation or Grounding Device?

none

35. Drive End Wavy Washer/Snap-Ring Other Retention Device?

none

36.	Drive End Bearing Condition	worn	
37.	Opposite Drive End Bearing Brand	Fag	
38.	Opposite Drive End Bearing Number-	6314 2Z/C3	P101



39. Opposite Drive End Bearing Qty.

40. Opposite Drive End Bearing Type (Ball) Ball Bearing P110





41.	Opposite Drive End Lubrication Type	(Grease) Grease Lubricated	
42.	Opposite Drive End Bearing Insulation or Grounding Device?	none	
43.	Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?	wavy washer	
44.	Opposite Drive End Bearing Condition	worn	
45.	Drive End Seal	none	
46.	Opposite Drive End Seal	none	
Rotor I	nspection	i i	0



48.	Growler Test	(Pass) Pass	
49.	Number of Rotor Bars	46	
50.	Rotor Condition	pass	
51	List the Parts needed for the Renair Relow		

1.) 6314 2Z/C3 bearing

1.) 6319 2Z/C3 bearing

52. Signature of Technician that Disassembled Motor

Terrence. Holland



Mech	nanical Fits- Roto	or			
53	. Shaft Runout			0.001 inches	
54	. Rotor Runout				
	Drive End Bea	ring Fit	Rotor Body	Opposite Drive End Bearing	
55	. Coupling Fit Clo	sest to Bearing Ho	ousing		
	0 Degrees		90 Degrees	120 Degrees	
56	. Coupling Fit Clo	sest to the end of	the Shaft		
	0 Degrees		60 Degrees	120 Degrees	
57	. Drive End Bearing	ng Shaft Fit			
	0 Degrees		60 Degrees	120 Degrees	
	3.7409		3.7408	3.7408	
<b>5</b> 8	. Drive End Beari	ng Shaft Fit Condi	tion	(P) Pass	
59	. Opposite Drive I	End Bearing Shaft	Fit		
	0 Degrees		60 Degrees	120 Degrees	
	2.7562		2.7563	2.7563	
<b>6</b> 0	. Opposite Drive I	End Bearing Shaft	Fit Condition	(P) Pass	

Shaft Air Seal Fits 61.

> Opposite Drive End Air Seal Drive End Air Seal

# **Mechanical Fits- Bearing Housings**

0

Drive End - Endbell Bearing Fit

0 Degrees 60 Degrees 120 Degrees

Bad

Drive End - Endbell Bearing Fit Condition

(F) Fail

P15

Excessive wear. See photo below



Opposite Drive End - Endbell Bearing Fit

0 Degrees 60 Degrees 120 Degrees

Bad

Opposite Drive End - Endbell Bearing Fit Condition 65.

(F) Fail

P39

Excessive wear. See photo below.



Drive End Bearing Cap Opposite Drive End Bearing Cap

pass pass





67. End Bell Air Seal Fits

Drive End Air Seal Opposite Drive End Air Seal

68. List Machine Work Needed Below Both end bell housings are bad.

69. Technician Terrence Holland

Co sign: CRW

## **Root Cause of Failure**

70. Failure locations

Windings failed in slot.

71. Root cause of failure

Undetermined. But both housing fits are bad as well.

#### **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

#### Rewind

76. Core Test Results - Watts loss per Pound

Pre-Burnout Post Burnout

77.	Core Hot Spot Test			
	Pre-Burnout	Post-Burnout		
78.	Post Rewind Electrical Test- Insula	ation Resistance		
79.	Post Rewind Polarization Index			
80.	Post Rewind Winding Resistance			
	1-2	1-3	2-3	
81.	Post Rewind Surge Test			
82.	Post Rewind Hi-Pot			
83.	Technician			
Mechai	nical Fits- Bearing Housings -	Post Repair		
	Drive End - Endbell Bearing Fit Po	-		
	0 Degrees	60 Degrees	120 Degrees	
	o Begrees	oo Begrees	120 Degrees	
85.	Opposite Drive End - Endbell Bear	ring Fit Post Repair		
55.	0 Degrees	60 Degrees	120 Degrees	
	0 Degrees	oo Degrees	120 Degrees	
86.	Bearing Cap Condition Post Repa	ir		
00.	Drive End Bearing Cap	"Opposite Drive End Bearing Cap		
	Drive End Bearing Cap	Opposite Drive End Bearing Cap		
87.	End Bell Air Seal Fits Post Repair			
07.	Drive End Air Seal	Opposite Drive End Air Seal		
	Drive End Air Sear	Opposite Drive Life All Seal		
88.	End Bell Repair Sign-off			
Assem				
89.	QC Check All Parts for Cleanlines	e Prior to Assambly		
90.	Photograph All Major Components	·		
91.	Final Insulation Resistance Test	s prior to assembly		
	Assembled Shaft Endplay			
93.	Assembled Shaft Runout			
94.	Test Run Voltage	Volta	Volta	
	Volts	Volts	Volts	
95.	Test Run Amperage			
90.		Amno	Amno	
	Amps	Amps	Amps	
96.	Drive End Vibration Readings - Inc	chas Par Sacand		
90.			Aviol	
	Horizontal	Vertical	Axial	
97.	Opposite Drive End Vibration Rea	dings - Inches Per Second		
91.		Vertical	Avial	
	Horizontal	vertical	Axial	
00	Ambient Temperature Februarie	<b>.</b>		
98.	Ambient Temperature - Fahrenhei			
99.	Drive End Bearing Temps - Fahren		45 Minutes	
	5 Minutes	10 Minutes	15 Minutes	

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100. Opposite Drive End B	earing Temps - Fahrenheit		
5 Minutes	10 Minutes	15 Minutes	
101. Document Final Cond	tion with Pictures after paint		
102. Final Pics and QC Re	view		