



**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**

**Location:** LR MOTOR SHOP

**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: 2 - High 14 - Good

**Overall Condition**



1. Report Date

06/03/2025

2. Nameplate Picture

P37



3. Photos of all six sides of the machine.

P45











4. Describe the Overall Condition of the Equipment as Received <i>Serviceable</i>		
5. Is this a UL Listed Motor	(No) No	
6. Is the motor water cooled or can be pressure checked before teardown	(No) No	
<b>Initial Mechanical/Electrical</b>		
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**

#### Initial Electrical Inspection



22. Insulation Resistance/Megger **Megohms**

23. Winding Resistance

1-2

1-3

2-3

24. Perform Surge Test **(NA) Not Applicable**



25. Number of Stator Slots **60**



27. Stator Thermistors/Ohms

28. Stator Overloads/Ohms

**Mechanical Inspection**

29. Drive End Bearing Brand

Fag

30. Drive End Bearing Number-

6319 2Z/C3

P32



31. Drive End Bearing Qty.

1

32. Drive End Bearing Type

(Ball) Ball Bearing

P51



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

Hi-Speed Industrial Service disclaims all warranties, both express and implied, relating to the information, reports, opinions and analysis disclosed to the Customer by Hi-Speed. Hi-Speed shall not be liable for any errors or omissions, or any losses, injury or damages arising from the use of such information, reports, opinions and analysis by the Customer.



36. Drive End Bearing Condition	<b>worn</b>	
37. Opposite Drive End Bearing Brand	<b>Fag</b>	
38. Opposite Drive End Bearing Number-	<b>6314 2Z/C3</b>	P101
		
39. Opposite Drive End Bearing Qty.	<b>1</b>	
40. Opposite Drive End Bearing Type	<b>(Ball) Ball Bearing</b>	P110
 		
41. Opposite Drive End Lubrication Type	<b>(Grease) Grease Lubricated</b>	
42. Opposite Drive End Bearing Insulation or Grounding Device?	<b>none</b>	
43. Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?	<b>wavy washer</b>	
44. Opposite Drive End Bearing Condition	<b>worn</b>	
45. Drive End Seal	<b>none</b>	
46. Opposite Drive End Seal	<b>none</b>	
<b>Rotor Inspection</b>		





- |                          |             |
|--------------------------|-------------|
| 48. Growler Test         | (Pass) Pass |
| 49. Number of Rotor Bars | 46          |
| 50. Rotor Condition      | pass        |

51. List the Parts needed for the Repair Below

- 1.) 6314 2Z/C3 bearing  
1.) 6319 2Z/C3 bearing

52. Signature of Technician that Disassembled Motor

Terrence. Holland

**Mechanical Fits- Rotor**

- |                  |              |
|------------------|--------------|
| 53. Shaft Runout | 0.001 inches |
|------------------|--------------|

54. Rotor Runout

Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing
-----------------------	------------	----------------------------

55. Coupling Fit Closest to Bearing Housing

0 Degrees	90 Degrees	120 Degrees
-----------	------------	-------------

56. Coupling Fit Closest to the end of the Shaft

0 Degrees	60 Degrees	120 Degrees
-----------	------------	-------------

57. Drive End Bearing Shaft Fit



0 Degrees	60 Degrees	120 Degrees
3.7409	3.7408	3.7408

- |   |          |
|---|----------|
| 58. Drive End Bearing Shaft Fit Condition | (P) Pass |
|---|----------|

59. Opposite Drive End Bearing Shaft Fit

0 Degrees	60 Degrees	120 Degrees
2.7562	2.7563	2.7563

- |  |          |
|--|----------|
| 60. Opposite Drive End Bearing Shaft Fit Condition | (P) Pass |
|--|----------|

<div>61. Shaft Air Seal Fits</div> <div> <div>Drive End Air Seal</div> <div>Opposite Drive End Air Seal</div> </div>	<div>Mechanical Fits- Bearing Housings</div> <div>62. Drive End - Endbell Bearing Fit</div> <div> <div>0 Degrees</div> <div>60 Degrees</div> <div>120 Degrees</div> </div> <div>Bad</div>		
<div>63. Drive End - Endbell Bearing Fit Condition</div> <div>Excessive wear. See photo below</div> <div>  </div>	<div>(F) Fail</div> <div>P15</div>		
<div>64. Opposite Drive End - Endbell Bearing Fit</div> <div> <div>0 Degrees</div> <div>60 Degrees</div> <div>120 Degrees</div> </div> <div>Bad</div>	<div>65. Opposite Drive End - Endbell Bearing Fit Condition</div> <div>Excessive wear. See photo below.</div> <div>  </div>		
<div>(F) Fail</div> <div>P39</div>			

## 66. Bearing Cap Condition

Drive End Bearing Cap  
pass

Opposite Drive End Bearing Cap  
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

A handwritten signature in black ink, appearing to read 'T. 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- Insulation 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		
Mechanical Fits- Bearing Housings - Post Repair			
84.	Drive End - Endbell Bearing Fit Post Repair		
	0 Degrees	60 Degrees	120 Degrees
85.	Opposite Drive End - Endbell Bearing Fit Post Repair		
	0 Degrees	60 Degrees	120 Degrees
86.	Bearing Cap Condition Post Repair		
	Drive End Bearing Cap	Opposite Drive End Bearing Cap	
87.	End Bell Air Seal Fits Post Repair		
	Drive End Air Seal	Opposite Drive End Air Seal	
88.	End Bell Repair Sign-off		
Assembly			
89.	QC Check All Parts for Cleanliness Prior to Assembly		
90.	Photograph All Major Components prior to assembly		
91.	Final Insulation Resistance Test		
92.	Assembled Shaft Endplay		
93.	Assembled Shaft Runout		
94.	Test Run Voltage		
	Volts	Volts	Volts
95.	Test Run Amperage		
	Amps	Amps	Amps
96.	Drive End Vibration Readings - Inches Per Second		
	Horizontal	Vertical	Axial
97.	Opposite Drive End Vibration Readings - Inches Per Second		
	Horizontal	Vertical	Axial
98.	Ambient Temperature - Fahrenheit		
99.	Drive End Bearing Temps - Fahrenheit		
	5 Minutes	10 Minutes	15 Minutes

Hi-Speed Industrial Service disclaims all warranties, both express and implied, relating to the information, reports, opinions and analysis disclosed to the Customer by Hi-Speed. Hi-Speed shall not be liable for any errors or omissions, or any losses, injury or damages arising from the use of such information, reports, opinions and analysis by the Customer.



100. Opposite Drive End Bearing Temps - Fahrenheit			
5 Minutes	10 Minutes	15 Minutes	
101. Document Final Condition with Pictures after paint			
102. Final Pics and QC Review			