

LR Motor Shop Repairs

Job Number 103910

Prepared for Saint Jean Industries, Inc. (11653)

424 Industrial Park Road Heber Springs AR 72543

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AC Inspection as Found - MOTOR SHOP LR

AC Inspection - Rev. 2: S9062235-001

1.0



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

> FolderID: 103910 FormID: 22675598

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

424 Industrial Park Road Heber Springs, AR 72543

AC Inspection - Rev. 2

Location: MOTOR SHOP LR

Serial Number: S9062235-001

Description:300 HP

Hi-Speed Job Number:	103910
Manufacturer:	Baldor
Serial Number:	S9062235-001
HP/kW:	300 (HP)
RPM:	1780 (RPM)
Voltage:	460
Current:	329 (Amps)
Phase:	Three
Hz:	60 (Hz)
Service Factor:	1.15
Enclosure:	DP
# of Leads:	12
J-box Included:	None
Coupling/Sheave:	None
Bearing RTDs:	No
Stator RTDs:	No
Repair Stage:	Final
Rewind:	No
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

8 - Good

Overall Condition

01/03/2025 1. Report Date

2. Nameplate Picture



3. Photos of all six sides of the machine.





















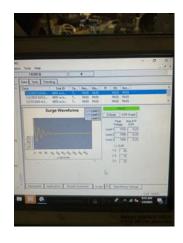
4. Describe the Overall Condition of the Equipment as Received Serviceable

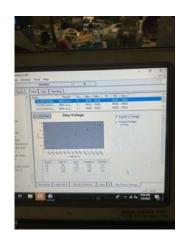
Initial Mechanical/Electrical

	5.	Does Shaft Turn Freely?	(Y) Yes
	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	0.0002 Inches
	9.	Assembled Shaft End Play	inches

■ Na

10.	Air Gap Variation <10%			
-	Na			
11.	Lead Condition		(P) Pass	
12.	Lead Length		18 Inches	
13.	Does it have Lugs?, If so what is the S	Stud Size?	(No) No	
14.	Lead Numbers		1-12	
15.	Frame Condition		pass	
16.	16. Fan Condition		(N) NA	
17.	17. Broken or Missing Components		missing connection box	
-	None			
Initial	Electrical Inspection			
Initial			390 Megohms	
18.	Electrical Inspection		390 Megohms	
18.	Electrical Inspection Insulation Resistance/Megger	1-3	390 Megohms	
18.	Electrical Inspection Insulation Resistance/Megger Winding Resistance	1-3 0.01185		





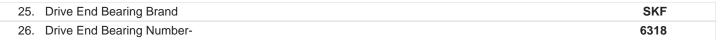
Step voltage

21. Number of Stator Slots	72
22. Stator Condition	wash and dry





23. Stator Thermistors	na na	
24. Stator Overloads/C	Dhms na	
Mechanical Inspection		





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



33. Opposite Drive End Bearing Brand	SKF
34. Opposite Drive End Bearing Number-	6318 ZZC3



35. Opposite Drive End Bearing Qty.	1
36. Opposite Drive End Bearing Type	(Ball) Ball Bearing
37. Opposite Drive End Lubrication Type	(Grease) Grease Lubricated
38. Opposite Drive End Bearing Insulation or Grounding Device?	NA
39. Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?	Wavy washer
40. Opposite Drive End Bearing Condition	water contamination



41.	Drive End Seal	pass
42.	Opposite Drive End Seal	pass
Rotor	Inspection	
43.	Rotor Type/Material	(Squirrel Aluminum) Squirrel Cage Aluminum Die Cast
44.	Growler Test	(Pass) Pass
45.	Number of Rotor Bars	56
46.	Rotor Condition	
-	Wash	



40	O	DIM
	2-6318 ZZ C3 BEARING	
47.	. List the Parts needed for the Repair Below	

48. Signature of Technician that Disassembled Motor

Mechanical Fits- Rotor					
49.	Shaft Runout		0 inches		
50.	Rotor Runout				
	Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing		
	0	0	0		
51.	Coupling Fit Closest to Bearing Housi	ng			
	0 Degrees	90 Degrees	120 Degrees		
	3.3743	3.3743	3.3743		
52.	Coupling Fit Closest to the end of the	Shaft			
	0 Degrees	60 Degrees	120 Degrees		
	3.3742	3.3742	3.3742		
53.	Drive End Bearing Shaft Fit				
	0 Degrees	60 Degrees	120 Degrees		
	3.5435	3.5435	3.5435		
5 4.	Drive End Bearing Shaft Fit Condition		(P) Pass		



55. Opposite Drive End Bearing Shaft Fit				
	0 Degrees	60 Degrees	120 Degrees	
	3.5435	3.5435	3.5435	
56.	56. Opposite Drive End Bearing Shaft Fit Condition			(P) Pass



57.	Shaft Air Seal Fits	
	Drive End Air Seal	Opposite Drive End Air Seal
	pass	pass

Mechanical Fits- Bearing Housings				
58.	58. Drive End - Endbell Bearing Fit			
	0 Degrees	60 Degrees	120 Degrees	
	7.4819	7.4818	7.4818	
59.	59. Drive End - Endbell Bearing Fit Condition			(F) Fail



60.	. Opposite Drive End - Endbell Bearing Fit			
	0 Degrees	60 Degrees	120 Degrees	
	7.482	7.4819	7.482	
61.	61. Opposite Drive End - Endbell Bearing Fit Condition		(F) Fail	





63.	End Bell Air Seal Fits	
	Drive End Air Seal	Opposite Drive End Air Seal
	pass	pass
64.	List Machine Work Needed Below	
	De and. Ode end bell bearing fit bad	
65.	Technician	RW

Co sign CRW

Root Cause of Failure

66. Failure locations

Bearing and housing. Winding very dirty

67. Root cause of failure

Water

Dynamic Balance Report

68. Rotor Weight and Balance Grade

Rotor Weight Balance Grade

69. Initial Balance Readings

Drive End Opposite Drive End

70. Final Balance Readings

Drive End Opposite Drive End

71. Technician

Mechanical Fits- Bearing Housings - Post Repair

72. Drive End - Endbell Bearing Fit Post Repair

0 Degrees 60 Degrees 120 Degrees

73.	Opposite Drive End - Endbell Bearing Fit Post Repair		
	0 Degrees	60 Degrees	120 Degrees
74.	Bearing Cap Condition Post Repair		
	Drive End Bearing Cap	Opposite Drive End Bearing Cap	
75	End Bell Air Seal Fits Post Repair		
70.	Drive End Air Seal	Opposite Drive End Air Seal	
	Dive Life / III Gedi	Opposite Brive End All Codi	
76.	End Bell Repair Sign-off		
Assen	nbly		
77.	QC Check All Parts for Cleanliness Pr	ior to Assembly	
78.	Photograph All Major Components prior to assembly		
79.	Final Insulation Resistance Test		
80.	Assembled Shaft Endplay		
81.	Assembled Shaft Runout		
82.	Test Run Voltage		
	Volts	Volts	Volts
83	Test Run Amperage		
00.	Amps	Amps	Amps
	7.11.190	7.11.190	7 111,00
84.	Drive End Vibration Readings - Inches	s Per Second	
	Horizontal	Vertical	Axial
0.5	0 " 0 " 5 " 5 " 6 "		
85.	Opposite Drive End Vibration Reading		
	Horizontal	Vertical	Axial
86.	Ambient Temperature - Fahrenheit		
	Drive End Bearing Temps - Fahrenheit		
	5 Minutes	10 Minutes	15 Minutes
88.	Opposite Drive End Bearing Temps -		
	5 Minutes	10 Minutes	15 Minutes
90	Document Final Condition with Picture	es after paint	
	Final Pics and QC Review	s alter parrit	
30.	I IIIai I IOS AIIU QO INEVIEW		

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- 5. <u>DELIVERY OF GOODS AND/OR SERVICES.</u> Unless otherwise identified in the quotation, all shipments are F.O.B. Hi-Speed's warehouse and the title to and all risk of loss with respect to any goods shipped shall pass to Buyer when such goods are delivered to the carrier at Hi-Speed's warehouse. Hi-Speed will use its best efforts to affect delivery by the date or dates specified in the quotation. However, Hi-Speed shall not be liable for delay in or failure to make shipment, or to perform services, by any identified date for any reason whatsoever, including but not limited to, causes beyond its reasonable control, such as strikes, fires, floods, epidemics, quarantines, restrictions, severe weather, embargos, acts of God, or public enemy, war, riot, delays in transportation or the inability to obtain necessary labor, materials or manufacturing facilities.
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