



AC Inspection as Found

Georges Inc
1810 S. St. Louis Street
Batesville, AR 72501

FolderID: 103920
FormID: 22713798

AC Inspection - Rev. 2

Location: LR MOTOR SHOP

Serial Number:

Description: ROOTS BLOWER

Hi-Speed Job Number: 103920

Product Number: 05929B

of Leads: Other

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

Bearing Type: Rolling Element

Priorities Found: ● 2 - High ● 6 - Good

Overall Condition



1. Report Date
2. Nameplate Picture
3. Photos of all six sides of the machine.

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4. Describe the Overall Condition of the Equipment as Received















*Dirty and rusted
Need bearings, seals and machine 3 housings*

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	0.001 Inches
9.	Assembled Shaft End Play	inches
	Na	
10.	Air Gap Variation <10%	
	Na	
11.	Lead Condition	(NA) Not Applicable
12.	Lead Length	Inches
	Na	
13.	Does it have Lugs?, If so what is the Stud Size?	(No) No
14.	Lead Numbers	
	Na	
15.	Frame Condition	good
16.	Fan Condition	(N) NA
17.	Broken or Missing Components	yes
	Missing seal on drive end output shaft 2.250x1.500x0.3750	

Initial Electrical Inspection

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18.	Insulation Resistance/Megger	Megohms
	Na	
19.	Winding Resistance	
	1-2	1-3 2-3
	Na	
	20. Perform Surge Test	(NA) Not Applicable
	21. Number of Stator Slots	
	Na	
	22. Stator Condition	
	Na	
	23. Stator Thermistors/Ohms	
	Na	
	24. Stator Overloads/Ohms	
	Na	
Mechanical Inspection		
	25. Drive End Bearing Brand	FAG
	26. Drive End Bearing Number-	NJ308
	27. Drive End Bearing Qty.	2
	28. Drive End Bearing Type	(Roller) Roller Bearing
	29. Drive End Lubrication Type	(Oil) Oil Lubricated
	30. Drive End Bearing Insulation or Grounding Device?	
	No	
	31. Drive End Wavy Washer/Snap-Ring Other Retention Device?	no
	32. Drive End Bearing Condition	worn
	33. Opposite Drive End Bearing Brand	FAG
	34. Opposite Drive End Bearing Number-	NJ308
	35. Opposite Drive End Bearing Qty.	2
	36. Opposite Drive End Bearing Type	(Roller) Roller Bearing
	37. Opposite Drive End Lubrication Type	(Oil) Oil Lubricated
	38. Opposite Drive End Bearing Insulation or Grounding Device?	no
	39. Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?	no
	40. Opposite Drive End Bearing Condition	worn
	41. Drive End Seal	
	Multiple	
	42. Opposite Drive End Seal	
	Multiple	
Rotor Inspection		
	43. Rotor Type/Material	
	Na	
	44. Growler Test	
	Na	
	45. Number of Rotor Bars	
	Na	
	46. Rotor Condition	
	Na	

47. List the Parts needed for the Repair Below

4-NJ308

4-3"x2.25"x0.3750"

1-2.250"x1.500"x0.3750"

Sleeve 3 bearing housings

48. Signature of Technician that Disassembled Motor

Trevor Hall



Mechanical Fits- Rotor

49. Shaft Runout

0.001 inches

All fits are within .001 and the drive shaft.

50. Rotor Runout

Drive End Bearing Fit

Rotor Body

Opposite Drive End Bearing

Na

51. Coupling Fit Closest to Bearing Housing

0 Degrees

90 Degrees

120 Degrees

1.4991

1.4983

1.4985

52. Coupling Fit Closest to the end of the Shaft

0 Degrees

60 Degrees

120 Degrees

1.4991

1.4987

1.4985

53. Drive End Bearing Shaft Fit

0 Degrees

60 Degrees

120 Degrees

54. Drive End Bearing Shaft Fit Condition

55. Opposite Drive End Bearing Shaft Fit

0 Degrees

60 Degrees

120 Degrees

56. Opposite Drive End Bearing Shaft Fit Condition

57. Shaft Air Seal Fits

Drive End Air Seal

Opposite Drive End Air Seal

good

good

Mechanical Fits- Bearing Housings

58. Drive End - Endbell Bearing Fit

0 Degrees

60 Degrees

120 Degrees

3.5451 3.5453 3.5453
3.5448 3.5450 3.5449

59. Drive End - Endbell Bearing Fit Condition

(F) Fail

60. Opposite Drive End - Endbell Bearing Fit

0 Degrees

60 Degrees



120 Degrees

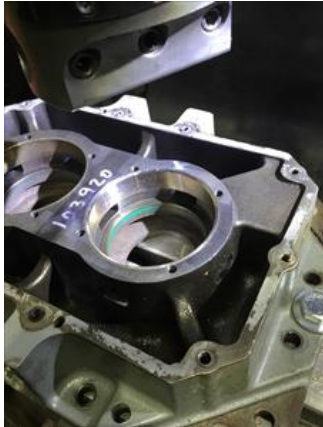

3.5437 3.5439 3.5438 ODE
3.5449 3.5444 3.5442 ODE

61. Opposite Drive End - Endbell Bearing Fit Condition

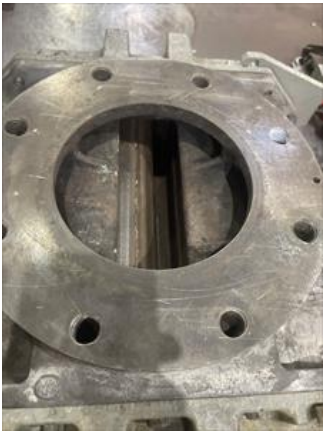
(F) Fail

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62.	Bearing Cap Condition	
	Drive End Bearing Cap	Opposite Drive End Bearing Cap
	<div> <div></div> <div>Na</div> </div>	
63.	End Bell Air Seal Fits	
	Drive End Air Seal	Opposite Drive End Air Seal
	<div> <div></div> <div>Na</div> </div>	
64.	List Machine Work Needed Below <i>Sleeve 3 bearing housings</i>	
65.	Technician	Trevor Hall
		
Root Cause of Failure		
66.	Failure locations <i>Bearing housings</i>	
67.	Root cause of failure <i>Missing seal and worn bearing housings</i>	
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			P5
	0 Degrees	60 Degrees	120 Degrees	
	3.5436	3.5436	3.5436	
				
73.	Opposite Drive End - Endbell Bearing Fit Post Repair			P19
	0 Degrees	60 Degrees	120 Degrees	
	3.5435	3.5435	3.5434	
	3.5436, 3.5437, 3.5437			
				
74.	Bearing Cap Condition Post Repair			
	Drive End Bearing Cap	Opposite Drive End Bearing Cap		
75.	End Bell Air Seal Fits Post Repair			
	Drive End Air Seal	Opposite Drive End Air Seal		
76.	End Bell Repair Sign-off			Gary
Assembly				
77.	QC Check All Parts for Cleanliness Prior to Assembly			
78.	Photograph All Major Components prior to assembly			P17

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79.	Final Insulation Resistance Test	Megohms		
80.	Assembled Shaft Endplay	inches		
81.	Assembled Shaft Runout	inches		
82.	Test Run Voltage			
	Volts	Volts	Volts	
83.	Test Run Amperage			
	Amps	Amps	Amps	
84.	Drive End Vibration Readings - Inches Per Second			
	Horizontal	Vertical	Axial	
85.	Opposite Drive End Vibration Readings - Inches Per Second			
	Horizontal	Vertical	Axial	
86.	Ambient Temperature - Fahrenheit			
87.	Drive End Bearing Temps - Fahrenheit			
	5 Minutes	10 Minutes	15 Minutes	
88.	Opposite Drive End Bearing Temps - Fahrenheit			
	5 Minutes	10 Minutes	15 Minutes	
89.	Stator Temperatures- Fahrenheit			
	5 Minutes	10 Minutes	15 Minutes	
90.	Document Final Condition with Pictures after paint			

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91. Final Pics and QC Review

Terrence Holland

[Handwritten signature]

Co sign: CW