

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

> FolderID: 102854 FormID: 20233519

AC Inspection as Found

Peco Foods

625 S. Allen Street Batesville, AR 72501

> AC Inspection - Rev. 2 Location: Shop Serial Number: 1609937022 **Description:**HOWDEN ROTARY BLOWER

Hi-Speed Job Number:	102854
Manufacturer:	Other
Spec/ID #:	851470TR
Serial Number:	1609937022
# of Leads:	Other
J-box Included:	None
Coupling/Sheave:	Gear
Date Received:	04/29/2024
Bearing RTDs:	No
Stator RTDs:	No
Repair Stage:	Final
Rewind:	No
Shaft Machined Fit Repairs Required:	No
Bearing Housing Machined Fit Repairs Required:	No
Heaters:	No
Bearing Type:	Rolling Element

Priorities Found: **a** 2 - High



7 - Good

Overall Condition 0 Report Date 05/15/2023 1.

Nameplate Picture





Photos of all six sides of the machine. 3.

P45







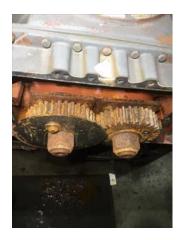
























































		The state of the s				
	4.	Describe the Overall Condition of Rusted	the Equipment as Received			
	5.	Distance from the end of the shafe	t to the Coupling/Sheave		inches	
(-	Na				
Ini	tial N	/lechanical/Electrical				
	6.	Does Shaft Turn Freely?			(N) No	
	7.	Does the shaft require T.I.R in La	the to identify additional repairs?		(Yes) Yes	
	-	Seal surface repair.				
	8.	Does Shaft Have Visible Damage	?		(No) No	
	9.	Assembled Shaft Runout			Inches	
(-	Na				
	10.	Assembled Shaft End Play			inches	
	-	Na				
	11.	Air Gap Variation <10%				
-	-	Na				
	12.	Lead Condition			(NA) Not Applicable	
	13.	Lead Length			Inches	
	-	Na				
	14.	Does it have Lugs?, If so what is	the Stud Size?		(No) No	
	15.	Lead Numbers				
	-	Na				
	16.	Frame Condition			rusted	
	17.	Fan Condition			(N) NA	
	18.	Broken or Missing Components				
	-	3 ea bearings were missing locking	miniature ball bearings that fit in bearing	ng grooves.		
Ini	tial E	Electrical Inspection				0
	19.	Insulation Resistance/Megger			Megohms	
	-	Na				
	20.	Winding Resistance				
		1-2	1-3	2-3		
	-	Na				
	21.	Perform Surge Test			(NA) Not Applicable	
	22.	Number of Stator Slots				
	-	Na				

Requires extensive cleaning





24. Stator Thermistors/Ohms

Na

25. Stator Overloads/Ohms

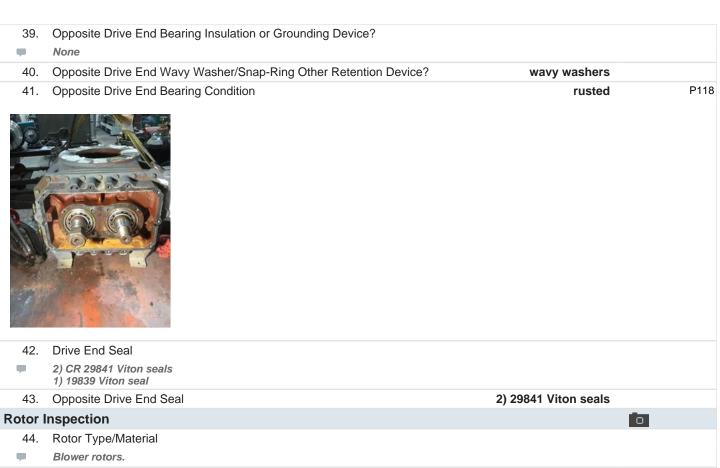
Na

Mechanical Inspection			
26.	Drive End Bearing Brand	Romania ENSO URB	
27.	Drive End Bearing Number-	NJ311 EN1C3SO	
28.	Drive End Bearing Qty.		
-	2		
29.	Drive End Bearing Type	(Roller) Roller Bearing	
30.	Drive End Lubrication Type	(Oil) Oil Lubricated	
31.	Drive End Bearing Insulation or Grounding Device?		
-	Na		
32.	Drive End Wavy Washer/Snap-Ring Other Retention Device?	wavy washers	
33.	Drive End Bearing Condition	rusted	P82





34.	Opposite Drive End Bearing Brand	Romania ENSO URB
35.	Opposite Drive End Bearing Number-	NJ311 EN1C3SO
36.	Opposite Drive End Bearing Qty.	2
37.	Opposite Drive End Bearing Type	(Roller) Roller Bearing
38.	Opposite Drive End Lubrication Type	(Oil) Oil Lubricated



43. Opposite Drive End Seal

Rotor Inspection

44. Rotor Type/Material

Blower rotors.

45. Growler Test

Na

46. Number of Rotor Bars

Na

47. Rotor Condition

rusted

48. List the Parts needed for the Repair Below



See photo

49. Signature of Technician that Disassembled Motor Terrence. Holland Witness:RRW **Mechanical Fits- Rotor** 50. Shaft Runout 0.002 inches 51. Rotor Runout Drive End Bearing Fit Rotor Body Opposite Drive End Bearing 52. Coupling Fit Closest to Bearing Housing 120 Degrees 0 Degrees 90 Degrees Na Coupling Fit Closest to the end of the Shaft 53. 0 Degrees 60 Degrees 120 Degrees Na 54. Drive End Bearing Shaft Fit 60 Degrees 120 Degrees 0 Degrees 2.1663, 2.1661, 2.1663 (rotor1) 2.1664, 2.1663, 2.1664 (rotor2) 55. Drive End Bearing Shaft Fit Condition (P) Pass Opposite Drive End Bearing Shaft Fit 56. 0 Degrees 60 Degrees 120 Degrees 2.1661, 2.1662, 2.1662 (rotor1) 2.1662, 2.1661, 2.1662 (rotor2) 57. Opposite Drive End Bearing Shaft Fit Condition (P) Pass Shaft Air Seal Fits Drive End Air Seal Opposite Drive End Air Seal Na **Mechanical Fits- Bearing Housings** 0 59. Drive End - Endbell Bearing Fit 60 Degrees 120 Degrees 0 Degrees 4.7256, 4.7256, 4.7254 (Right side) 4.7254, 4.7255, 4.7255 (Left side) (P) Pass 60. Drive End - Endbell Bearing Fit Condition 61. Opposite Drive End - Endbell Bearing Fit 0 Degrees 60 Degrees 120 Degrees 4.7254, 4.7255, 4.7255 (Right side) 4.7250, 4.7252, 4.7253 (Left side)

Opposite Drive End - Endbell Bearing Fit Condition (P) Pass 62. 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 Na P67 65. List Machine Work Needed Below

Seal surface requires Polish/repair due to excessive rust.



66. Technician Terrence Holland

0

Witness:

Root Cause of Failure

67. Failure locations

Bearings, rotors, & housing.

68. Root cause of failure P18

Entire oil basin on both ends contained nothing but water. Unit is completely coated internally with rust.







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

Assembly

- 73. QC Check All Parts for Cleanliness Prior to Assembly
- 74. Photograph All Major Components prior to assembly
- 75. Final Insulation Resistance Test
- 76. Assembled Shaft Endplay
- 77. Assembled Shaft Runout
- 78. Test Run Voltage

Volts Volts Volts

79.	Test Run Amperage			
	Amps	Amps	Amps	
80.	Drive End Vibration Readings - Inches Per Second			
	Horizontal	Vertical	Axial	
81.	. Opposite Drive End Vibration Readings - Inches Per Second			
	Horizontal	Vertical	Axial	
82.	. Ambient Temperature - Fahrenheit			
83.	Drive End Bearing Temps - Fahrenheit			
	5 Minutes	10 Minutes	15 Minutes	
84.	. Opposite Drive End Bearing Temps - Fahrenheit			
	5 Minutes	10 Minutes	15 Minutes	
85.	Stator Temperatures- Fahrenheit			
	5 Minutes	10 Minutes	15 Minutes	
86.	Document Final Condition with Pi	ctures after paint		
87.	Final Pics and QC Review			

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