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

AC Inspection as Found

Peco Foods (004801)
489 County Rd 142
Corning, AR 72422

FolderID: 154228
FormID: 22397314

AC Inspection - Rev. 2

Location:	Shop
Serial Number:	

Manufacturer:	WEG
Product Number:	1029834572
Spec/ID #:	ARZ-183153000
Serial Number:	12455587
HP/kW:	150 (HP)
RPM:	1780 (RPM)
Frame:	444/5T
Voltage:	460
Current:	170 (Amps)
Phase:	Three
Hz:	60 (Hz)
Service Factor:	1.15
Enclosure:	TEFC
J-box Included:	Complete
Coupling/Sheave:	None
Date Received:	11/21/2024
Bearing RTDs:	No
Stator RTDs:	No
Repair Stage:	Teardown Inspection
Heaters:	No
Winding Type :	Random Wound
Bearing Type:	Rolling Element

Priorities Found: **1 - High** **32 - Good**

Overall Condition

1. Report Date **11/25/2024**
2. Nameplate Picture P2

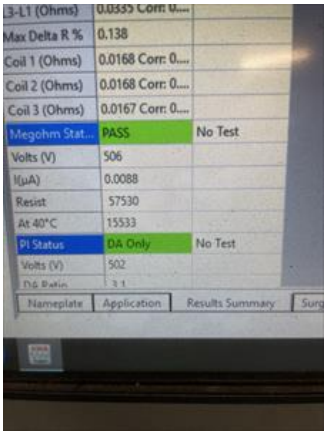
3. Photos of all six sides of the machine. P3

	4.	Describe the Overall Condition of the Equipment as Received	
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 Inches**
●	9.	Assembled Shaft End Play	**0.001 inches**
●	10.	Air Gap Variation <10%	**no provision for measures**
●	11.	Lead Condition	**(P) Pass**
●	12.	Lead Length	**12 Inches**

13.	Does it have Lugs?, If so what is the Stud Size?	**(Yes) Yes**	
	5/8 lug		
14.	Lead Numbers	**T1-T12**	
	T		
15.	Frame Condition	**good**	
16.	Fan Condition	**(P) Pass**	
17.	Broken or Missing Components	**none**	

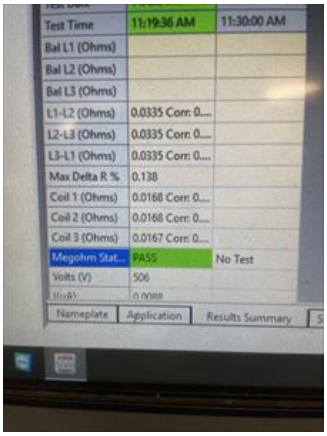
Initial Electrical Inspection

18.	Insulation Resistance/Megger	**15533 Megohms**	P22



19.	Winding Resistance		P23

1-2	1-3	2-3
.0335	**.0335**	**.0335**



	20.	Perform Surge Test	**(P) Pass**	P24

	21.	Number of Stator Slots	**48**	
	22.	Stator Condition	**acceptable**	
	23.	Stator Thermistors/Ohms	**na**	
	24.	Stator Overloads/Ohms	**na**	

Mechanical Inspection

	25.	Drive End Bearing Brand	**NTN**	
	26.	Drive End Bearing Number-	**319**	P30

Roller bearing

27.	Drive End Bearing Qty.	**1**	
28.	Drive End Bearing Type	**(Roller) Roller Bearing**	

	29.	Drive End Lubrication Type	**(Grease) Grease Lubricated**	
●	30.	Drive End Bearing Insulation or Grounding Device?	**none present**	
●	31.	Drive End Wavy Washer/Snap-Ring Other Retention Device?	**none present**	
●	32.	Drive End Bearing Condition	**good**	
●	33.	Opposite Drive End Bearing Brand	**NSK**	P37

●	34.	Opposite Drive End Bearing Number-	**6316c3**	P38

	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?	**none**	
	39.	Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?	**snap ring**	P43

40.	Opposite Drive End Bearing Condition	
41.	Drive End Seal	**yes**
	In good condition	
42.	Opposite Drive End Seal	

Rotor Inspection

43.	Rotor Type/Material	**(Aluminum Bar) Aluminum Barred Rotor**
44.	Growler Test	**(Pass) Pass**
45.	Number of Rotor Bars	**40**
46.	Rotor Condition	**acceptable**
47.	List the Parts needed for the Repair Below *1- 6316C3* *1- 319 Roller bearing*	
48.	Signature of Technician that Disassembled Motor	

Mechanical Fits- Rotor

49. Shaft Runout

50. Rotor Runout

Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing

51. Coupling Fit Closest to Bearing Housing

0 Degrees	90 Degrees	120 Degrees
3.375	**3.375**	**3.375**

52. Coupling Fit Closest to the end of the Shaft

0 Degrees	60 Degrees	120 Degrees
3.375	**3.375**	**3.375**

53. Drive End Bearing Shaft Fit P65

0 Degrees	60 Degrees	120 Degrees
3.7411	**3.7411**	**3.7411**

95mm = 3.7401 Pressfit tolerance is from 3.7411 to 3.7420

54.	Drive End Bearing Shaft Fit Condition	**(P) Pass**

55. Opposite Drive End Bearing Shaft Fit P67

0 Degrees	60 Degrees	120 Degrees
3.1499	**3.1497**	**3.1496**

80mm = 3.1496 Pressfit tolerance is from 3.1497 to 3.1502

56. Opposite Drive End Bearing Shaft Fit Condition **(P) Pass**

57. Shaft Air Seal Fits

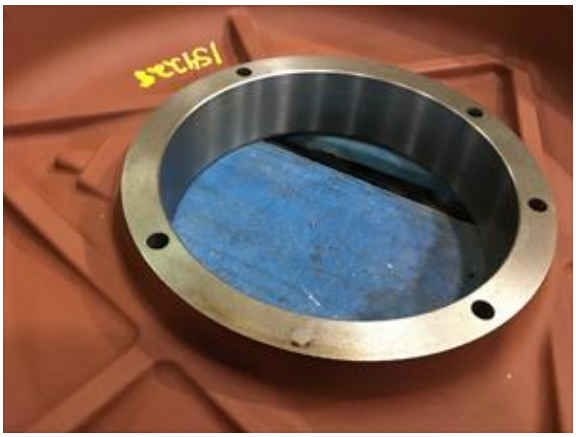
Drive End Air Seal	Opposite Drive End Air Seal

Mechanical Fits- Bearing Housings

58. Drive End - Endbell Bearing Fit P70

0 Degrees	60 Degrees	120 Degrees
7.875	**7.875**	**7.875**

200mm = 7.8740 Tolerance is from 7.8740 to 7.8751

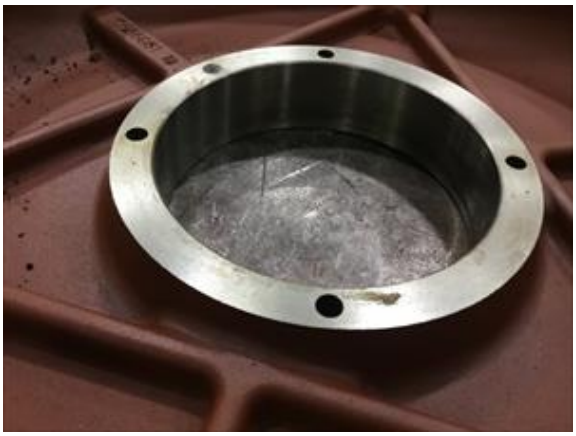


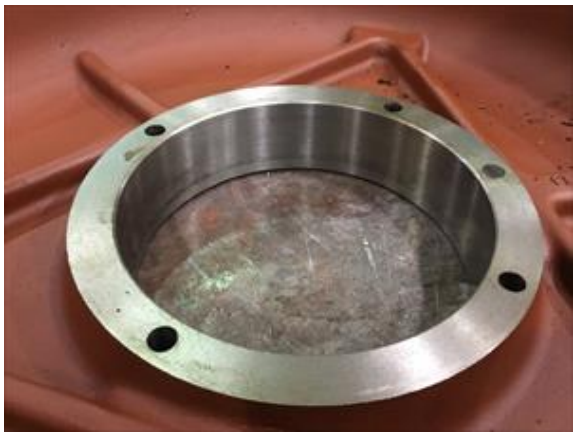
59. Drive End - Endbell Bearing Fit Condition **(P) Pass**

60. Opposite Drive End - Endbell Bearing Fit

0 Degrees	60 Degrees	120 Degrees
6.694	**6.6939**	**6.694**

170mm = 6.6929 *Tolerance Is from 6.6929 to 6.6939*





61. Opposite Drive End - Endbell Bearing Fit Condition **(P) Pass**

62. Bearing Cap Condition

Drive End Bearing Cap	Opposite Drive End Bearing Cap

63. End Bell Air Seal Fits

Drive End Air Seal	Opposite Drive End Air Seal

64. List Machine Work Needed Below

No machine work needed at this time.

65. Technician **Roger Ventrini**

Root Cause of Failure

66. Failure locations

67. Root cause of failure