



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: 154221
FormID: 22367723



AC Inspection - Rev. 2

Location: Shop

Serial Number:

Hi-Speed Job Number:	154221
Manufacturer:	WEG
Product Number:	L5010/11DZ
Spec/ID #:	1026776130
HP/kW:	783 (HP)
RPM:	3575 (RPM)
Voltage:	460
Current:	842 (Amps)
Phase:	Three
Hz:	60 (Hz)
Service Factor:	1.15
Enclosure:	WPI
# of Leads:	6
J-box Included:	None
Coupling/Sheave:	None
Date Received:	11/22/2024
Bearing RTDs:	No
Stator RTDs:	Yes
Repair Stage:	Teardown Inspection
Heaters:	Yes
Winding Type :	Random Wound
Bearing Type:	Rolling Element

Priorities Found: ● 2 - High ● 9 - Good

Overall Condition



- Report Date 11/22/2024
- Nameplate Picture P2



- Photos of all six sides of the machine. P3

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.






4. Describe the Overall Condition of the Equipment as Received

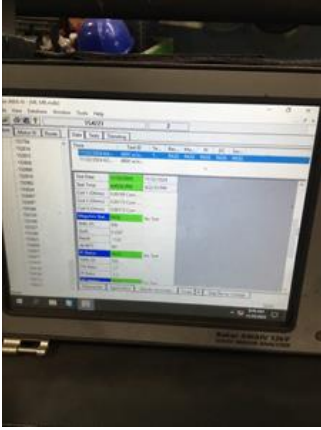
Initial Mechanical/Electrical



5.	Does Shaft Turn Freely?	(Y) Yes
6.	Does the shaft require T.I.R in Lathe to identify additional repairs?	
7.	Does Shaft Have Visible Damage?	(No) No
8.	Assembled Shaft Runout	0.001 Inches
9.	Assembled Shaft End Play	0.002 inches
10.	Air Gap Variation <10%	
11.	Lead Condition	(P) Pass
12.	Lead Length	52 Inches

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.

13.	Does it have Lugs?, If so what is the Stud Size?	(Yes) Yes	
	3/8"		
14.	Lead Numbers	T1-T6	
15.	Stator Temperature Detector Rating and Function		
	Quantity	Rating	Quantity Passed
	6	100	6
16.	Frame Condition	good	
17.	Fan Condition	(P) Pass	P19
	Internal on shaft		
			
18.	Heater Quantity, Ratings		
	Quantity	Volts/Watts	Pass/Fail
	2	240/173	pass
19.	Broken or Missing Components	yes	P21
	Missing lifting eyes		
			
Initial Electrical Inspection			



21. Winding Resistance

1-2

1-3

2-3

.00342

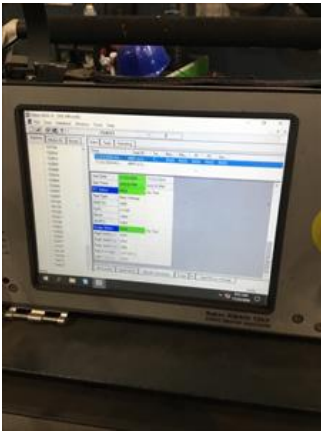
.00346

.00342

22. Perform Surge Test

(P) Pass

P24



23. Number of Stator Slots

48

24. Stator Condition

acceptable

25. Stator Thermistors/Ohms

none

26. Stator Overloads/Ohms

100 ohm rtd

Mechanical Inspection



27. Drive End Bearing Brand

NCI

28. Drive End Bearing Number-

6218 C4

29. Drive End Bearing Qty.

1

30. Drive End Bearing Type

(Ball) Ball Bearing

31. Drive End Lubrication Type

(Grease) Grease Lubricated

32. Drive End Bearing Insulation or Grounding Device?

none

33. Drive End Wavy Washer/Snap-Ring Other Retention Device?

none

Spacer



Spacer on end

35. Opposite Drive End Bearing Brand	NCI	
36. Opposite Drive End Bearing Number-	6218 C4	
37. Opposite Drive End Bearing Qty.	1	
38. Opposite Drive End Bearing Type	(Ball) Ball Bearing	
39. Opposite Drive End Lubrication Type	(Grease) Grease Lubricated	
40. Opposite Drive End Bearing Insulation or Grounding Device?	end bell is insulated	P42



41. Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?

P43



Faces inside

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.



43. Drive End Seal

none

44. Opposite Drive End Seal

none

Rotor Inspection

45. Rotor Type/Material

(Squirrel Aluminum) Squirrel
Cage Aluminum Die Cast

46. Growler Test

P56



47. Number of Rotor Bars

40

48. Rotor Condition

acceptable

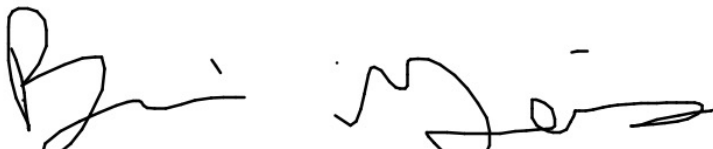
49. List the Parts needed for the Repair Below

(2) 6218 C4 bearings

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.

50. Signature of Technician that Disassembled Motor

Brian Goines



Mechanical Fits- Rotor



51. Shaft Runout

52. Rotor Runout

Drive End Bearing Fit

Rotor Body

Opposite Drive End Bearing

53. Coupling Fit Closest to Bearing Housing

0 Degrees

90 Degrees

120 Degrees

54. Coupling Fit Closest to the end of the Shaft

0 Degrees

60 Degrees

120 Degrees

55. Drive End Bearing Shaft Fit

P65

0 Degrees

60 Degrees

120 Degrees

3.5438

3.5437

3.5437

90mm = 3.5433 Pressfit tolerance is from 3.5434 to 3.5440



56. Drive End Bearing Shaft Fit Condition

(P) Pass

57. Opposite Drive End Bearing Shaft Fit

0 Degrees	60 Degrees	120 Degrees
3.5435	3.5435	3.5436

90mm = 3.5433 Pressfit tolerance is from 3.5434 to 3.5440



58. Opposite Drive End Bearing Shaft Fit Condition

(P) Pass

59. Shaft Air Seal Fits

Drive End Air Seal	Opposite Drive End Air Seal
--------------------	-----------------------------

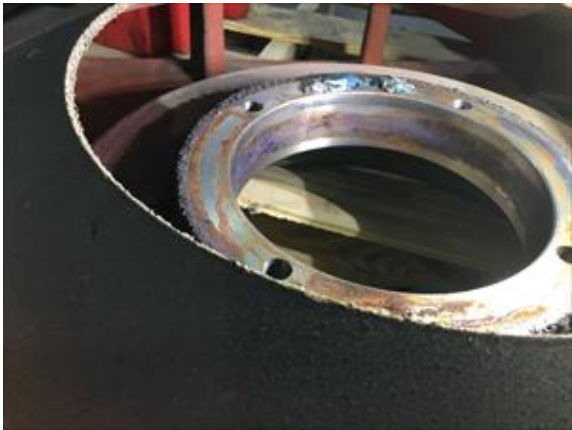
Mechanical Fits- Bearing Housings



60. Drive End - Endbell Bearing Fit

0 Degrees	60 Degrees	120 Degrees
6.3002	6.3012	6.3006

160mm = 6.2992 Tolerance is from 6.2992 to 6.3002



61. Drive End - Endbell Bearing Fit Condition

(F) Fail

62. Opposite Drive End - Endbell Bearing Fit

0 Degrees	60 Degrees	120 Degrees
6.32	6.322	6.305

Bad the bearing has been spinning in its bore for a long time



63. Opposite Drive End - Endbell Bearing Fit Condition (F) Fail

64. Bearing Cap Condition
Drive End Bearing Cap Opposite Drive End Bearing Cap

65. End Bell Air Seal Fits
Drive End Air Seal Opposite Drive End Air Seal

66. List Machine Work Needed Below
Both endbells need to be bored and bushed

67. Technician Roger Ventrini

Root Cause of Failure

- 68. Failure locations
- 69. Root cause of failure

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.