

AC Inspection as Found

Peco Foods
 625 S. Allen Street
 Batesville, AR 72501

FolderID: 101748
 FormID: 17633798

AC Inspection - Rev. 2

Location: Shop
Serial Number: C1204191062
Description: 50HP BALDOR 1800RPM 326TC

Hi-Speed Job Number: 101748
Manufacturer: Baldor
Product Number: CEM4115T
Spec/ID #: 12C052Z278G1
Serial Number: C1204191062
HP/kW: 50 (HP)
RPM: 1775 (RPM)
Frame: 326TC
Voltage: 230 / 460
Current: 114/57
Phase: Three
Hz: 60 (Hz)
Service Factor: 1.15
Enclosure: TEFC
J-box Included: Complete
Coupling/Sheave: None
Bearing RTDs: No
Stator RTDs: No
Heaters: No
Winding Type : Random Wound
Bearing Type: Rolling Element

Priorities Found: ● 2 - High ● 6 - Good

Overall Condition



1. Report Date
2. Nameplate Picture

P37



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.



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.



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.



- 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?	(Yes) Yes	
6.	Does Shaft Have Visible Damage?	(No) No	
7.	Assembled Shaft Runout	0.001 Inches	
8.	Assembled Shaft End Play		
9.	Air Gap Variation <10%		
10.	Lead Condition	(P) Pass	P55



11.	Lead Length	18.75 Inches
12.	Lead Numbers	1-9
13.	Frame Condition	pass

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.



15. Broken or Missing Components

connection box top cover missing

Initial Electrical Inspection



16. Insulation Resistance/Megger

17. Winding Resistance

1-2

1-3

2-3

● 18. Perform Surge Test

(P) Pass

P57



19. Number of Stator Slots

48

20. Stator Condition

pass

21. Stator Thermistors/Ohms

none

22. Stator Overloads/Ohms

n/a

Mechanical Inspection



23. Drive End Bearing Brand

skf

24. Drive End Bearing Number-

6312 2Z

25. Drive End Bearing Qty.

1

26. Drive End Bearing Type

(Ball) Ball Bearing

27. Drive End Lubrication Type

(Grease) Grease Lubricated

28. Drive End Bearing Insulation or Grounding Device?

none

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

star washer and locking nut

P72



30. Drive End Bearing Condition

fail

P77



31. Opposite Drive End Bearing Brand

skf

32. Opposite Drive End Bearing Number-

6311

33. Opposite Drive End Bearing Qty.

1

34. Opposite Drive End Bearing Type

(Ball) Ball Bearing

P92



35. Opposite Drive End Lubrication Type

(Grease) Grease Lubricated

36. Opposite Drive End Bearing Insulation or Grounding Device?

none

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

wavy washer

P98

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.



38. Opposite Drive End Bearing Condition

replace

39. Drive End Seal

lip seal VA-055

P101

 Replace



40. Opposite Drive End Seal

none

Rotor Inspection



41. Rotor Type/Material

(Squirrel Aluminum) Squirrel
Cage Aluminum Die Cast

P3



42. Growler Test

(Pass) Pass

43. Number of Rotor Bars

40

44. Rotor Condition

pass

45. List the Parts needed for the Repair Below
Repair O.D.E shaft bearing journal. Replace lip seal VA-055.

46. Signature of Technician that Disassembled Motor **Terrence Holland**



Mechanical Fits- Rotor

47. Shaft Runout **0.001 inches**

48. Rotor Runout

Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing
-----------------------	------------	----------------------------

49. Coupling Fit Closest to Bearing Housing

0 Degrees	90 Degrees	120 Degrees
-----------	------------	-------------

50. Coupling Fit Closest to the end of the Shaft

0 Degrees	60 Degrees	120 Degrees
-----------	------------	-------------

51. Drive End Bearing Shaft Fit

0 Degrees	60 Degrees	120 Degrees
-----------	------------	-------------

2.3626	2.3627	2.3626
---------------	---------------	---------------

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

53. Opposite Drive End Bearing Shaft Fit

0 Degrees	60 Degrees	120 Degrees
-----------	------------	-------------

2.1601	2.1603	2.1602
---------------	---------------	---------------

● 54. Opposite Drive End Bearing Shaft Fit Condition **(F) Fail**

55. Shaft Air Seal Fits

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

Mechanical Fits- Bearing Housings



56. Drive End - Endbell Bearing Fit

0 Degrees	60 Degrees	120 Degrees
-----------	------------	-------------

5.1187	5.1186	5.1185
---------------	---------------	---------------

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

58. Opposite Drive End - Endbell Bearing Fit

0 Degrees	60 Degrees	120 Degrees
-----------	------------	-------------

4.7258	4.7258	4.7258
---------------	---------------	---------------

■ *Fail*

● 59. Opposite Drive End - Endbell Bearing Fit Condition **(F) Fail**

■ *Lip worn in*

60. Bearing Cap Condition

Drive End Bearing Cap
pass

Opposite Drive End Bearing Cap
pass



61. End Bell Air Seal Fits

Drive End Air Seal

Opposite Drive End Air Seal

62. List Machine Work Needed Below

Ode shaft fit, and end bell housing fit has lip worn in.

63. Technician

Terrence Holland

Dynamic Balance Report

64. Rotor Weight and Balance Grade

Rotor Weight

Balance Grade

65. Initial Balance Readings

Drive End

Opposite Drive End

66. Final Balance Readings

Drive End

Opposite Drive End

67. Technician

Rewind

68. Core Test Results - Watts loss per Pound

Pre-Burnout

Post Burnout

69. Core Hot Spot Test

Pre-Burnout

Post-Burnout

70. Post Rewind Electrical Test- Insulation Resistance

71. Post Rewind Polarization Index

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.

72. Post Rewind Winding Resistance	1-2	1-3	2-3
73. Post Rewind Surge Test			
74. Post Rewind Hi-Pot			
75. Technician			
Root Cause of Failure			
76. Failure locations			
77. Root cause of failure			
Mechanical Fits- Rotor - Post Repair			
78. Shaft Runout Post Repair			
79. Rotor Runout Post Repair	Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing
80. Coupling Fit Closest to Bearing Housing Post Repair	0 Degrees	90 Degrees	120 Degrees
81. Coupling Fit Closest to the end of the Shaft Post Repair	0 Degrees	60 Degrees	120 Degrees
82. Drive End Bearing Shaft Fit Post Repair	0 Degrees	60 Degrees	120 Degrees
83. Opposite Drive End Bearing Shaft Fit Post Repair	0 Degrees	60 Degrees	120 Degrees
84. Shaft Air Seal Fits Post Repair	Drive End Air Seal	Opposite Drive End Air Seal	
85. Shaft Repair Sign-off			
Mechanical Fits- Bearing Housings - Post Repair			
86. Drive End - Endbell Bearing Fit Post Repair	0 Degrees	60 Degrees	120 Degrees
87. Opposite Drive End - Endbell Bearing Fit Post Repair	0 Degrees	60 Degrees	120 Degrees
88. Bearing Cap Condition Post Repair	Drive End Bearing Cap	Opposite Drive End Bearing Cap	
89. End Bell Air Seal Fits Post Repair	Drive End Air Seal	Opposite Drive End Air Seal	
90. End Bell Repair Sign-off			
Assembly			
91. QC Check All Parts for Cleanliness Prior to Assembly			

92.	Photograph All Major Components prior to assembly		
93.	Final Insulation Resistance Test		
94.	Assembled Shaft Endplay		
95.	Assembled Shaft Runout		
96.	Test Run Voltage		
	Volts	Volts	Volts
97.	Test Run Amperage		
	Amps	Amps	Amps
98.	Drive End Vibration Readings - Inches Per Second		
	Horizontal	Vertical	Axial
99.	Opposite Drive End Vibration Readings - Inches Per Second		
	Horizontal	Vertical	Axial
100.	Ambient Temperature - Fahrenheit		
101.	Drive End Bearing Temps - Fahrenheit		
	5 Minutes	10 Minutes	15 Minutes
102.	Opposite Drive End Bearing Temps - Fahrenheit		
	5 Minutes	10 Minutes	15 Minutes
103.	Document Final Condition with Pictures after paint		
104.	Final Pics and QC Review		