



AC Inspection as Found

Peco Foods (004801)

489 County Rd 142
Corning, AR 72422

FolderID: 153781
FormID: 21753553



AC Inspection - Rev. 2

Completed by: JAMES VALENTINE on
09/30/2024

Location: Default

Serial Number: 12W793Y49761

Description: 20 Hp Motor

Hi-Speed Job Number:	153781
Manufacturer:	Baldor
Serial Number:	12W793Y49761
HP/kW:	20 (HP)
RPM:	880 (RPM)
Frame:	324LPZ
Voltage:	460
Current:	30 (Amps)
Phase:	Three
Hz:	60 (Hz)
Service Factor:	1.15
Enclosure:	TEFC
# of Leads:	3
J-box Included:	None
Coupling/Sheave:	None
Date Received:	09/26/2024
Bearing RTDs:	No
Stator RTDs:	No
Repair Stage:	Teardown Inspection
Rewind:	No
Shaft Machined Fit Repairs Required:	Yes
Bearing Housing Machined Fit Repairs Required:	No
Heaters:	Yes
Winding Type :	Random Wound
Bearing Type:	Rolling Element

Priorities Found: ● 2 - Medium ● 50 - Good

Overall Condition



● 1. Report Date

09/26/2024





4. Describe the Overall Condition of the Equipment as Received

P4

Shaft damage

Assigned To: Roger Ventrini



5. Report Date [COPY]

Initial Mechanical/Electrical



6.	Does Shaft Turn Freely?	(Y) Yes
7.	Does the shaft require T.I.R in Lathe to identify additional repairs?	(No) No
8.	Does Shaft Have Visible Damage?	(Yes) Yes
	Seal surface damaged	
9.	Assembled Shaft Runout	0.003 Inches
10.	Assembled Shaft End Play	inches
	N/a	
11.	Air Gap Variation <10%	
12.	Lead Condition	(P) Pass
13.	Lead Length	10 Inches
14.	Does it have Lugs?, If so what is the Stud Size?	
15.	Lead Numbers	1-3
16.	Frame Condition	good



18. Heater Quantity, Ratings

Quantity	Volts/Watts	Pass/Fail
2		

19. Broken or Missing Components

none

Initial Electrical Inspection


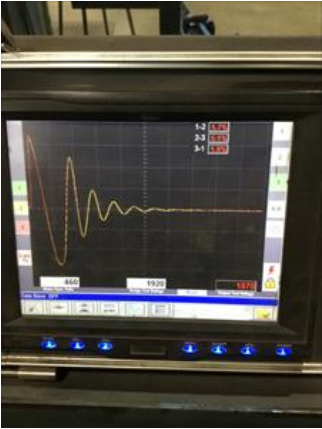



20. Insulation Resistance/Megger

92000 Megohms

P20



21. Winding Resistance		P21
1-2	1-3	2-3
		
22. Perform Surge Test	(P) Pass	P22
		
23. Number of Stator Slots	54	
24. Stator Condition	good	
25. Stator Thermistors/Ohms	n/a	
26. Stator Overloads/Ohms	n/a	
Mechanical Inspection		
27. Drive End Bearing Brand	Skf	
28. Drive End Bearing Number-	3215a c3	
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	

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34. Drive End Bearing Condition

good

P34



35. Opposite Drive End Bearing Brand

ntn
36. Opposite Drive End Bearing Number-

6311 c3
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?

none
41. Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?

wavy washer

P41



42. Opposite Drive End Bearing Condition

good

P42



43. Drive End Seal

 N/a

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44. Opposite Drive End Seal

N/a

Rotor Inspection



45. Rotor Type/Material (Squirrel Aluminum) Squirrel
Cage Aluminum Die Cast

46. Growler Test (Pass) Pass

47. Number of Rotor Bars 42

48. Rotor Condition damage to seal surface P48

Shaft size is 3.9840 at largest diameter. And 58 inches long.



49. List the Parts needed for the Repair Below
1-3215 a c3 bearing
1-6311 c3 bearing
1- shaft replacement see measurements in rotor condition section

50. Signature of Technician that Disassembled Motor James Valentine

Mechanical Fits- Rotor

51. Shaft Runout 0.003 inches

52. Rotor Runout

Drive End Bearing Fit

Rotor Body

Opposite Drive End Bearing

N/a

53. Coupling Fit Closest to Bearing Housing

0 Degrees

90 Degrees

120 Degrees

N/a

54. Coupling Fit Closest to the end of the Shaft

0 Degrees

60 Degrees

120 Degrees

N/a

55.	Drive End Bearing Shaft Fit		
	0 Degrees	60 Degrees	120 Degrees
	2.9535	2.9535	2.9535
	2.9534/2.9529		
56.	Drive End Bearing Shaft Fit Condition (P) Pass		
57.	Opposite Drive End Bearing Shaft Fit		
	0 Degrees	60 Degrees	120 Degrees
	2.1655	2.1655	2.1655
	2.1660/2.1655		
58.	Opposite Drive End Bearing Shaft Fit Condition (P) Pass		
59.	Shaft Air Seal Fits		
	Drive End Air Seal	Opposite Drive End Air Seal	
	N/a		
Mechanical Fits- Bearing Housings			
60.	Drive End - Endbell Bearing Fit		
	0 Degrees	60 Degrees	120 Degrees
	5.119	5.119	5.119
	5.1191/5.1181		
61.	Drive End - Endbell Bearing Fit Condition (P) Pass		
62.	Opposite Drive End - Endbell Bearing Fit		
	0 Degrees	60 Degrees	120 Degrees
	4.725	4.725	4.725
	4.7244/4.7253		
63.	Opposite Drive End - Endbell Bearing Fit Condition (P) Pass		
64.	Bearing Cap Condition		
	Drive End Bearing Cap	Opposite Drive End Bearing Cap	
	good	good	
65.	End Bell Air Seal Fits		
	Drive End Air Seal	Opposite Drive End Air Seal	
	N/a		
66.	List Machine Work Needed Below Shaft press out, cut, and press in.		
67.	Technician		James Valentine
			
Root Cause of Failure			
68.	Failure locations Shaft damage.		
69.	Root cause of failure N/a		