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

AC Inspection as Found

Post Foods LLC
5800 C.W. Post Rd
Jonesboro, AR 72401

FolderID: 153874
FormID: 21922858

AC Inspection - Rev. 2

Location:	Post Foods
Serial Number:	

Hi-Speed Job Number:	153874
Manufacturer:	Other
Product Number:	8P75P3C
Spec/ID #:	BJ65
Serial Number:	P 10 7382794-0010 M 0001
HP/kW:	75 (HP)
RPM:	1190 (RPM)
Frame:	405T
Voltage:	460
Current:	87 (Amps)
Phase:	Three
Hz:	60 (Hz)
Service Factor:	1.15
Enclosure:	TEFC
# of Leads:	3
J-box Included:	Complete
Coupling/Sheave:	None
Date Received:	10/09/2024
Bearing RTDs:	No
Stator RTDs:	No
Repair Stage:	Teardown Inspection
Heaters:	No
Winding Type :	Random Wound
Bearing Type:	Rolling Element

Priorities Found: **12 - High** **37 - Good**

Overall Condition

1.	Report Date	**10/11/2024**	
2.	Nameplate Picture		P2

3. Photos of all six sides of the machine.

4.	Describe the Overall Condition of the Equipment as Received			
	Has machine work on the drive end ***Needs new fan*** ***Windings good***			
5.	Report Date [COPY]		**10/11/2024**	

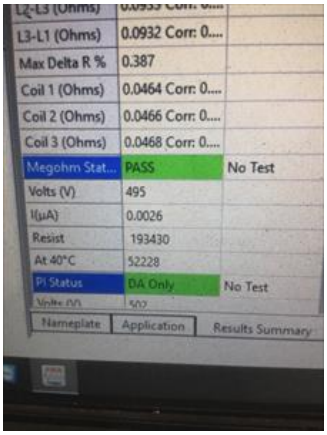
Initial Mechanical/Electrical

6.	Does Shaft Turn Freely?		**(N) No**	
7.	Does the shaft require T.I.R in Lathe to identify additional repairs?		**(Yes) Yes**	
8.	Does Shaft Have Visible Damage?		**(Yes) Yes**	
9.	Assembled Shaft Runout		**Inches**	
	Locked up			
10.	Assembled Shaft End Play		**inches**	
	Locked up			
11.	Air Gap Variation <10%		**ıo provision for measurement**	
12.	Lead Condition		**(P) Pass**	
13.	Lead Length		**9 Inches**	
14.	Does it have Lugs?, If so what is the Stud Size?		**(No) No**	
15.	Lead Numbers		**1-3**	
16.	Frame Condition		**good**	
17.	Fan Condition		**(F) Fail**	P20
	Cracked over key ***11" od. 12 blades. 2.365" shaft***			

18.	Broken or Missing Components		**fan broken**	

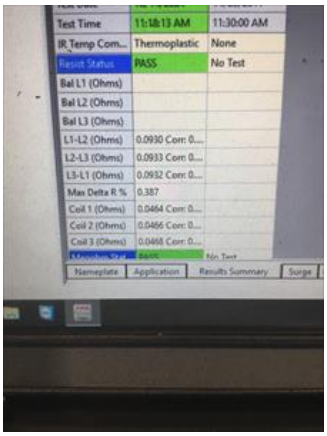
Initial Electrical Inspection

19.	Insulation Resistance/Megger	**52228 Megohms**	P23

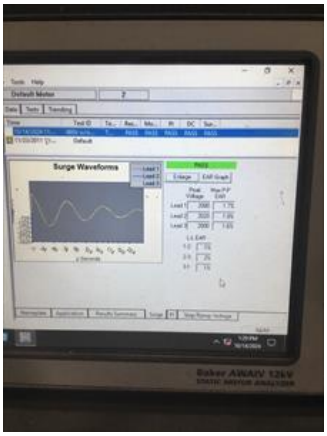


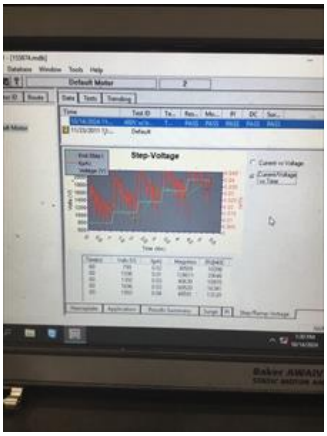
20.	Winding Resistance		P24

1-2	1-3	2-3
.0464	**.0466**	**.0468**



21.	Perform Surge Test	**(P) Pass**	P25





22.	Number of Stator Slots	**72**
23.	Stator Condition	**good**
24.	Stator Thermistors/Ohms	**N/A**
25.	Stator Overloads/Ohms	**N\A**

Mechanical Inspection

26.	Drive End Bearing Brand	**no name**

27.	Drive End Bearing Number-	**6316 zz c3**	
28.	Drive End Bearing Qty.	**1**	
29.	Drive End Bearing Type	**(Ball) Ball Bearing**	
30.	Drive End Lubrication Type	**(Grease) Grease Lubricated**	
31.	Drive End Bearing Insulation or Grounding Device?	**none present**	
32.	Drive End Wavy Washer/Snap-Ring Other Retention Device?	**none present**	
33.	Drive End Bearing Condition	**failed**	P37

34.	Opposite Drive End Bearing Brand	**no name**	
35.	Opposite Drive End Bearing Number-	**6316 zz c3**	P39

36.	Opposite Drive End Bearing Qty.	**1**	
37.	Opposite Drive End Bearing Type	**(Ball) Ball Bearing**	
38.	Opposite Drive End Lubrication Type	**(Grease) Grease Lubricated**	
39.	Opposite Drive End Bearing Insulation or Grounding Device?	**none present**	
40.	Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?	**wavy washer**	
41.	Opposite Drive End Bearing Condition	**normal wear**	P45

42. Drive End Seal **impro seal** P46

43.	Opposite Drive End Seal	**impro seal**	

Rotor Inspection

44.	Rotor Type/Material	**(Squirrel Aluminum) Squirrel Cage Aluminum Die Cast**	
45.	Growler Test	**(Pass) Pass**	
46.	Number of Rotor Bars	**84**	
47.	Rotor Condition	**good**	
48.	List the Parts needed for the Repair Below		

1- impro seals od 3.630 shaft 3.227
1- impro seal od 3.897. Shaft 2.940
2- 6316 zz c3
1- fan

49.	Signature of Technician that Disassembled Motor	**Nigel Hill**	

Mechanical Fits- Rotor

50.	Shaft Runout		
51.	Rotor Runout		

Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing

52.	Coupling Fit Closest to Bearing Housing		

0 Degrees	90 Degrees	120 Degrees

53.	Coupling Fit Closest to the end of the Shaft		

0 Degrees	60 Degrees	120 Degrees

54. Drive End Bearing Shaft Fit

0 Degrees	60 Degrees	120 Degrees

Bearing failed

55. Drive End Bearing Shaft Fit Condition **(F) Fail**

56. Opposite Drive End Bearing Shaft Fit

0 Degrees	60 Degrees	120 Degrees

57. Opposite Drive End Bearing Shaft Fit Condition

58. Shaft Air Seal Fits

Drive End Air Seal	Opposite Drive End Air Seal
fail	

Mechanical Fits- Bearing Housings

59. Drive End - Endbell Bearing Fit

0 Degrees	60 Degrees	120 Degrees

60. Drive End - Endbell Bearing Fit Condition

61. Opposite Drive End - Endbell Bearing Fit

0 Degrees	60 Degrees	120 Degrees

62. Opposite Drive End - Endbell Bearing Fit Condition

63. 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

65. List Machine Work Needed Below

66. Technician

Root Cause of Failure

67. Failure locations

68. Root cause of failure