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

AC Recondition As Found

Sage V Foods
5901 SLOAN DRIVE
LITTLE ROCK, AR 72206

FolderID: 100515
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AC Recondition - Rev. 2

Location:	MOTOR SHOP LR
Serial Number:	C2204761422
Description:	50HP BALDOR 1800RPM 326TD

Hi-Speed Job Number:	100515
Manufacturer:	Baldor
Product Number:	12-0000-1572
Spec/ID #:	12-0000-1572
Serial Number:	C2204761422
HP/kW:	50 (HP)
RPM:	1770 (RPM)
Frame:	326TD
Voltage:	230 / 460
Current:	114/57
Phase:	Three
Hz:	60 (Hz)
Service Factor:	1.00
Enclosure:	TEFC
J-box Included:	Complete
Coupling/Sheave:	None
Bearing RTDs:	No
Stator RTDs:	No
Repair Stage:	Teardown Inspection
Heaters:	No
Winding Type :	Random Wound
Bearing Type:	Rolling Element

Priorities Found: **7 - Good**

Overall Condition

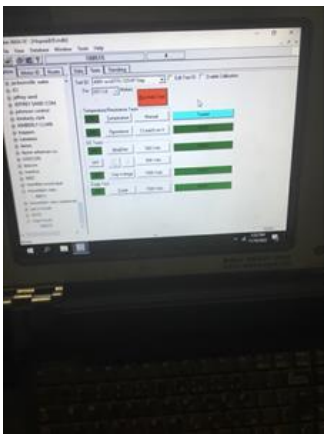
1. Report Date

2. Nameplate Picture

P21

3. Photos of all six sides of the machine.

P27



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**	P12

7.	Assembled Shaft Runout	**Inches**	
	More than 35 thousands bent.		
8.	Assembled Shaft End Play		
9.	Air Gap Variation <10%		
10.	Lead Condition	**(P) Pass**	P32

11.	Lead Length	**11.5 Inches**	
12.	Frame Condition		
13.	Fan Condition	**(P) Pass**	P53
	Missing lock screw.		

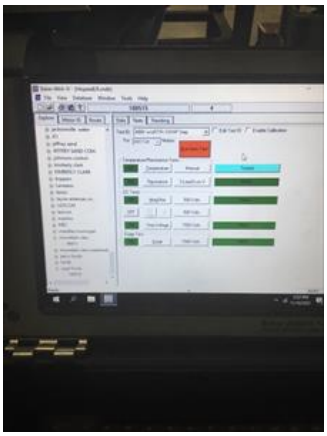
14.	Broken or Missing Components	**fan missing screw**

Initial Electrical Inspection

15.	Insulation Resistance/Megger	**Megohms**	
16.	Winding Resistance		

1-2	1-3	2-3

17.	Perform Surge Test		P35



18.	Stator Condition		

Mechanical Inspection

19.	Drive End Bearing Number-	**6312 2rs**	P8

20.	Drive End Bearing Qty.	**1**
21.	Drive End Bearing Type	**(Ball) Ball Bearing**
22.	Drive End Lubrication Type	**(Grease) Grease Lubricated**
23.	Drive End Bearing Insulation or Grounding Device?	**none**
24.	Drive End Wavy Washer/Snap-Ring Other Retention Device?	**none**
25.	Drive End Bearing Condition	**replace**

26.	Opposite Drive End Bearing Number-	**6312 2rs**	P46

27.	Opposite Drive End Bearing Qty.	**1**
28.	Opposite Drive End Bearing Type	**(Ball) Ball Bearing**
29.	Opposite Drive End Lubrication Type	**(Grease) Grease Lubricated**
30.	Opposite Drive End Bearing Insulation or Grounding Device?	**none**
31.	Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?	
32.	Opposite Drive End Bearing Condition	
33.	Drive End Seal	**in pro seal**
34.	Opposite Drive End Seal	

Rotor Inspection

35.	Rotor Type/Material	**(Squirrel Aluminum) Squirrel Cage Aluminum Die Cast**	P3

36.	Growler Test	
37.	Number of Rotor Bars	
38.	Rotor Condition	**shaft bent. recommend replacing.**
39.	List the Parts needed for the Repair Below ***New shaft***	
40.	Signature of Technician that Disassembled Motor	

Mechanical Fits- Rotor

41.	Shaft Runout	**0.045 inches**
42.	Rotor Runout	

Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing

43. Coupling Fit Closest to Bearing Housing

0 Degrees	90 Degrees	120 Degrees

44. Coupling Fit Closest to the end of the Shaft

0 Degrees	60 Degrees	120 Degrees

45. Drive End Bearing Shaft Fit

0 Degrees	60 Degrees	120 Degrees
2.3628	**2.3628**	**2.3627**

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

47. Opposite Drive End Bearing Shaft Fit

0 Degrees	60 Degrees	120 Degrees
2.3628	**2.3628**	**2.3628**

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

49. Shaft Air Seal Fits

Drive End Air Seal	Opposite Drive End Air Seal

Mechanical Fits- Bearing Housings

50. Drive End - Endbell Bearing Fit

0 Degrees	60 Degrees	120 Degrees
5.1184	**5.1183**	**5.1185**

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

52. Opposite Drive End - Endbell Bearing Fit

0 Degrees	60 Degrees	120 Degrees
5.1182	**5.1182**	**5.1182**

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

54. Bearing Cap Condition

Drive End Bearing Cap	Opposite Drive End Bearing Cap

55. End Bell Air Seal Fits

Drive End Air Seal	Opposite Drive End Air Seal

56. List Machine Work Needed Below

New shaft. Bent out of tolerance.

57. Technician **Terrence Holland**

Root Cause of Failure

58. Failure locations

Shaft bent

59. Root cause of failure

Bent shaft