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: 100753
FormID: 15663188

AC Recondition - Rev. 2

Location:	MOTOR SHOP LR
Serial Number:	EF5T46663N-F4-10-01/21
Description:	0.5HP SWECO 1200RPM 143TZX

Hi-Speed Job Number:	100753
Manufacturer:	US Motors/Nidec
Serial Number:	EF5T46663N-F4-10-01/21
HP/kW:	0.5 (HP)
RPM:	1160 (RPM)
Frame:	143TZX
Voltage:	460
Current:	1.45
Phase:	Three
Hz:	60 (Hz)
Service Factor:	1.00
Enclosure:	TENV
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: **1 - High** **5 - Good**

Overall Condition

1. Report Date
2. Nameplate Picture P20

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? **(No) No**

6. Does Shaft Have Visible Damage? **(No) No** P11

7. Assembled Shaft Runout

8. Assembled Shaft End Play

9. Air Gap Variation <10%

10.	Lead Condition	**(P) Pass**	P32

11.	Lead Length	**13.5 Inches**	P44

12.	Frame Condition	**pass**
13.	Fan Condition	**(N) NA**
14.	Broken or Missing Components	

Initial Electrical Inspection

15.	Insulation Resistance/Megger	**Megohms**	P5

16. Winding Resistance

1-2	1-3	2-3

17. Perform Surge Test

18.	Number of Stator Slots		
19.	Stator Condition		

Mechanical Inspection

20.	Drive End Bearing Number-	**22308 E/C3**	P8

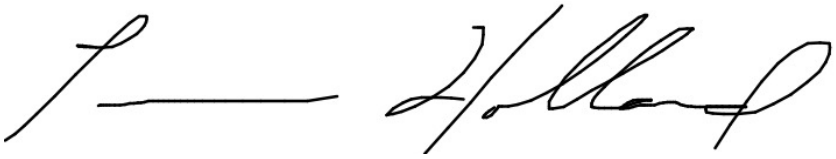
21.	Drive End Bearing Qty.	**1**	
22.	Drive End Bearing Type	**(Roller) Roller Bearing**	
23.	Drive End Lubrication Type	**(Grease) Grease Lubricated**	
24.	Drive End Bearing Insulation or Grounding Device?	**none**	
25.	Drive End Wavy Washer/Snap-Ring Other Retention Device?		
26.	Drive End Bearing Condition	**replace**	
27.	Opposite Drive End Bearing Number-	**NU 307 ECP/C3**	P47

28.	Opposite Drive End Bearing Qty.	**1**	
29.	Opposite Drive End Bearing Type		
30.	Opposite Drive End Lubrication Type	**(Grease) Grease Lubricated**	
31.	Opposite Drive End Bearing Insulation or Grounding Device?	**none**	
32.	Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?	**none**	
33.	Opposite Drive End Bearing Condition	**replace**	
34.	Drive End Seal	**National: 340853. s-3188**	
35.	Opposite Drive End Seal	**National: 340853. s-3188**	

Rotor Inspection

36.	Rotor Type/Material	**(Squirrel Aluminum) Squirrel Cage Aluminum Die Cast**	
37.	Growler Test		

38.	Number of Rotor Bars	
39.	Rotor Condition	**pass**
40.	List the Parts needed for the Repair Below	
	2 seals: National: 340853. NU bearing: 307 ECP/C3 & 22308.	
41.	Signature of Technician that Disassembled Motor	**Terrence Holland**



Mechanical Fits- Rotor

42.	Shaft Runout	**0.001 inches**
43.	Rotor Runout	

Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing

44.	Coupling Fit Closest to Bearing Housing	

0 Degrees	90 Degrees	120 Degrees

45.	Coupling Fit Closest to the end of the Shaft	

0 Degrees	60 Degrees	120 Degrees

46.	Drive End Bearing Shaft Fit	

0 Degrees	60 Degrees	120 Degrees
1.5749	**1.5749**	**1.5749**

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

0 Degrees	60 Degrees	120 Degrees
1.3789	**1.3789**	**1.3789**

49.	Opposite Drive End Bearing Shaft Fit Condition	**(P) Pass**
50.	Shaft Air Seal Fits	

Drive End Air Seal	Opposite Drive End Air Seal

Mechanical Fits- Bearing Housings

51.	Drive End - Endbell Bearing Fit	

0 Degrees	60 Degrees	120 Degrees
3.5419	**3.5419**	**3.5419**

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

0 Degrees	60 Degrees	120 Degrees
3.1497	**3.1497**	**3.1497**

54.	Opposite Drive End - Endbell Bearing Fit Condition	**(P) Pass**
55.	Bearing Cap Condition	

Drive End Bearing Cap	Opposite Drive End Bearing Cap

56.	End Bell Air Seal Fits	

Drive End Air Seal	Opposite Drive End Air Seal

57. List Machine Work Needed Below

None

58. Technician **Terrence Holland**

Root Cause of Failure

59. Failure locations

D.E. Bearing locked up from contaminated grease.

60. Root cause of failure

Bearing grease contaminated.