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: 100098
FormID: 14362997

AC Recondition - Rev. 2

Location:	MOTOR SHOP LR
Serial Number:	EF5T46663N-F4-4-12/20
Description:	0.5HP SWECO 1200RPM 143TZX

Hi-Speed Job Number:	100098
Manufacturer:	US Motors/Nidec
Serial Number:	EF5T46663N-F4-4-12/20
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:	None
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: **6 - Good**

Overall Condition

1. Report Date
2. Nameplate Picture P21

	3.	Photos of all six sides of the machine.	
	4.	Describe the Overall Condition of the Equipment as Received	
Initial Mechanical/Electrical			
●	5.	Does Shaft Turn Freely?	**(Yes) Yes**
	6.	Does Shaft Have Visible Damage?	**(No) No** P12

	7.	Assembled Shaft Runout	
	8.	Assembled Shaft End Play	
	9.	Air Gap Variation <10%	

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

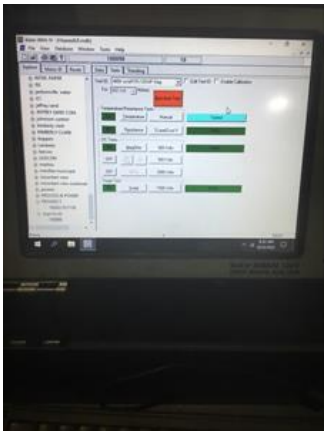
11.	Lead Length	
12.	Frame Condition	
13.	Fan Condition	**(N) NA**
14.	Broken or Missing Components	

Initial Electrical Inspection

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

1-2	1-3	2-3

17.	Perform Surge Test	**(P) Pass**	P35



18.	Stator Condition	

Mechanical Inspection

19.	Drive End Bearing Number-	**22308**	P8

20.	Drive End Bearing Qty.	**1**	
21.	Drive End Bearing Type	**(Spherical) Spherical Roller 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	**worn/contaminated grease**	
26.	Opposite Drive End Bearing Number-	**NU307**	P46

27.	Opposite Drive End Bearing Qty.	**1**	
28.	Opposite Drive End Bearing Type	**(Roller) Roller 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?	**none**	
32.	Opposite Drive End Bearing Condition	**worn/ dirty grease**	P56

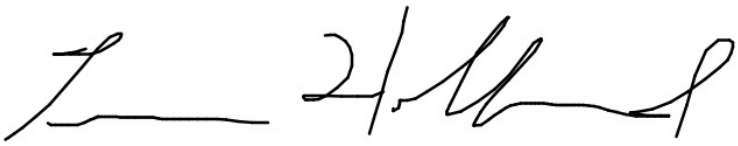
33. Drive End Seal P58

34. Opposite Drive End Seal P59

Rotor Inspection

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

36.	Growler Test	**(Pass) Pass**
37.	Number of Rotor Bars	
38.	Rotor Condition	**good**
39.	List the Parts needed for the Repair Below ***Bearings and seals***	
40.	Signature of Technician that Disassembled Motor	**Terrence. Holland**



Mechanical Fits- Rotor

41.	Shaft Runout	**0.001 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
1.5735	**1.5734**	**1.5735**

46.	Drive End Bearing Shaft Fit Condition	
47.	Opposite Drive End Bearing Shaft Fit	

0 Degrees	60 Degrees	120 Degrees
1.3786	**1.3785**	**1.3785**

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

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

52. Opposite Drive End - Endbell Bearing Fit

0 Degrees	60 Degrees	120 Degrees

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

54. Bearing Cap Condition

Drive End Bearing Cap	Opposite Drive End Bearing Cap
pass	**pass**

55. End Bell Air Seal Fits

Drive End Air Seal	Opposite Drive End Air Seal

56. List Machine Work Needed Below

None

57. Technician **Terrence Holland**

Root Cause of Failure

58. Failure locations

59. Root cause of failure