



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:	Final
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%



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

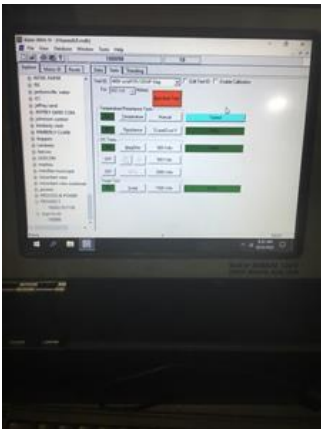
1-3

2-3

17. Perform Surge Test

(P) Pass

P35



18. Stator Condition

Mechanical Inspection



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





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



Dynamic Balance Report

58. Rotor Weight and Balance Grade

Rotor Weight

Balance Grade

59. Initial Balance Readings

Drive End

Opposite Drive End

60. Final Balance Readings

Drive End

Opposite Drive End

61. Technician

Rewind

62. Core Test Results - Watts loss per Pound

Pre-Burnout

Post Burnout

63. Core Hot Spot Test

Pre-Burnout

Post-Burnout

64. Post Rewind Electrical Test- Insulation Resistance

65. Post Rewind Polarization Index

66. Post Rewind Winding Resistance


1-2

1-3

2-3

67. Post Rewind Surge Test

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68.	Post Rewind Hi-Pot		
69.	Technician		
Root Cause of Failure			
70.	Failure locations		
71.	Root cause of failure		
Mechanical Fits- Rotor - Post Repair			
72.	Shaft Runout Post Repair		
73.	Rotor Runout Post Repair		
	Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing
74.	Coupling Fit Closest to Bearing Housing Post Repair		
	0 Degrees	90 Degrees	120 Degrees
75.	Coupling Fit Closest to the end of the Shaft Post Repair		
	0 Degrees	60 Degrees	120 Degrees
76.	Drive End Bearing Shaft Fit Post Repair		
	0 Degrees	60 Degrees	120 Degrees
77.	Opposite Drive End Bearing Shaft Fit Post Repair		
	0 Degrees	60 Degrees	120 Degrees
78.	Shaft Air Seal Fits Post Repair		
	Drive End Air Seal	Opposite Drive End Air Seal	
79.	Shaft Repair Sign-off		
Mechanical Fits- Bearing Housings - Post Repair			
80.	Drive End - Endbell Bearing Fit Post Repair		
	0 Degrees	60 Degrees	120 Degrees
81.	Opposite Drive End - Endbell Bearing Fit Post Repair		
	0 Degrees	60 Degrees	120 Degrees
82.	Bearing Cap Condition Post Repair		
	Drive End Bearing Cap	Opposite Drive End Bearing Cap	
83.	End Bell Air Seal Fits Post Repair		
	Drive End Air Seal	Opposite Drive End Air Seal	
84.	End Bell Repair Sign-off		
Assembly			
85.	Photograph All Major Components prior to assembly		
86.	Final Insulation Resistance Test		
87.	Assembled Shaft Endplay		
88.	Assembled Shaft Runout		

89. Test Run Voltage			
Volts	Volts	Volts	
90. Test Run Amperage			
Amps	Amps	Amps	
91. Drive End Vibration Readings - Inches Per Second			
Horizontal	Vertical	Axial	
92. Opposite Drive End Vibration Readings - Inches Per Second			
Horizontal	Vertical	Axial	
93. Ambient Temperature - Fahrenheit			
94. Drive End Bearing Temps - Fahrenheit			
5 Minutes	10 Minutes	15 Minutes	
95. Opposite Drive End Bearing Temps - Fahrenheit			
5 Minutes	10 Minutes	15 Minutes	
96. Final Test Run Sign-off			
97. Document Final Condition with Pictures after paint			P2200





98. Final Pics and QC Review