



AC Recondition As Found

Sage V Foods

5901 SLOAN DRIVE
LITTLE ROCK, AR 72206

FolderID: 101144
FormID: 16313803

AC Recondition - Rev. 2

Location: MOTOR SHOP LR

Serial Number: 82200460

Description: 30HP STERLING 1800RPM 286T

Hi-Speed Job Number: 101144

Manufacturer: Sterling

Product Number: EH0304FFA

Serial Number: 82200460

HP/kW: 30 (HP)

RPM: 1765 (RPM)

Frame: 286T

Voltage: 230 / 460

Current: 72/36

Phase: Three

Hz: 60 (Hz)

Service Factor: 1.15

Enclosure: TEFC

J-box Included: Complete

Coupling/Sheave: None

Bearing RTDs: No

Stator RTDs: No

Repair Stage: Final

Heaters: No

Winding Type : Random Wound

Bearing Type: Rolling Element

Priorities Found: ● 1 - High

● 8 - Good

Overall Condition



1. Report Date

2. Nameplate Picture

P37



3. Photos of all six sides of the machine.

P45

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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 | P18 |



- | | | |
|-----------------------------|--------------|-----|
| 7. Assembled Shaft Runout | 0.001 Inches | |
| 8. Assembled Shaft End Play | | |
| 9. Air Gap Variation <10% | | |
| 10. Lead Condition | (P) Pass | P54 |



- | | | |
|---------------------|----------|--|
| 11. Lead Length | 5 Inches | |
| 12. Frame Condition | | |


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13. Fan Condition

(F) Fail

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Cracked and loose on shaft.



14. Broken or Missing Components

Initial Electrical Inspection

15. Insulation Resistance/Megger

16. Winding Resistance

1-2

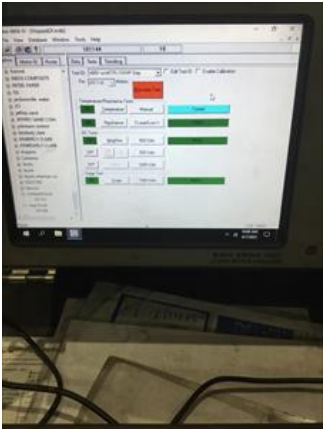
1-3

2-3

17. Perform Surge Test

(P) Pass

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18. Number of Stator Slots

19. Stator Condition

Mechanical Inspection

20. Drive End Bearing Brand

Fag

21. Drive End Bearing Number-

6310 2Z

P32



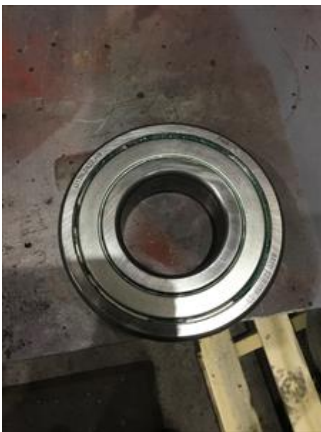
22. Drive End Bearing Qty.

1

23. Drive End Bearing Type

(Ball) Ball Bearing

P50



24. Drive End Lubrication Type

(Grease) Grease Lubricated

25. Drive End Bearing Insulation or Grounding Device?

none

26. Drive End Wavy Washer/Snap-Ring Other Retention Device?

none

27. Drive End Bearing Condition

replace

28. Opposite Drive End Bearing Brand

Fag

29. Opposite Drive End Bearing Number-

6210 2Z

30. Opposite Drive End Bearing Qty.

1




31. Opposite Drive End Bearing Type

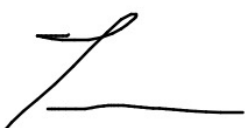

(Ball) Ball Bearing

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32. Opposite Drive End Lubrication Type	(Grease) Grease Lubricated	
33. Opposite Drive End Bearing Insulation or Grounding Device?	none	
34. Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?		P96
		
35. Opposite Drive End Bearing Condition	replace	
36. Drive End Seal		
37. Opposite Drive End Seal		
Rotor Inspection		
38. Rotor Type/Material	(Squirrel Aluminum) Squirrel Cage Aluminum Die Cast	P3
		
39. Growler Test	(Pass) Pass	
40. Number of Rotor Bars		
41. Rotor Condition	pass	
42. List the Parts needed for the Repair Below		
43. Signature of Technician that Disassembled Motor	Terrence Holland	
		
Mechanical Fits- Rotor		
44. Shaft Runout	0.001 inches	

45.	Rotor Runout		
	Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing
46.	Coupling Fit Closest to Bearing Housing		
	0 Degrees	90 Degrees	120 Degrees
47.	Coupling Fit Closest to the end of the Shaft		
	0 Degrees	60 Degrees	120 Degrees
48.	Drive End Bearing Shaft Fit		
	0 Degrees	60 Degrees	120 Degrees
	1.9684	1.9684	1.9684
49.	Drive End Bearing Shaft Fit Condition		(P) Pass
50.	Opposite Drive End Bearing Shaft Fit		
	0 Degrees	60 Degrees	120 Degrees
	1.9685	1.9685	1.9685
51.	Opposite Drive End Bearing Shaft Fit Condition		(P) Pass
52.	Shaft Air Seal Fits		
	Drive End Air Seal	Opposite Drive End Air Seal	
Mechanical Fits- Bearing Housings			
53.	Drive End - Endbell Bearing Fit		
	0 Degrees	60 Degrees	120 Degrees
	4.3316	4.3317	4.3316
54.	Drive End - Endbell Bearing Fit Condition		(P) Pass
55.	Opposite Drive End - Endbell Bearing Fit		
	0 Degrees	60 Degrees	120 Degrees
	3.544	3.5441	3.5442
56.	Opposite Drive End - Endbell Bearing Fit Condition		(P) Pass
57.	Bearing Cap Condition		
	Drive End Bearing Cap	Opposite Drive End Bearing Cap	
58.	End Bell Air Seal Fits		
	Drive End Air Seal	Opposite Drive End Air Seal	
59.	List Machine Work Needed Below <i>None</i>		
60.	Technician		Terrence Holland
 			
Dynamic Balance Report			
61.	Rotor Weight and Balance Grade		
	Rotor Weight	Balance Grade	

62.	Initial Balance Readings		
	Drive End	Opposite Drive End	
63.	Final Balance Readings		
	Drive End	Opposite Drive End	
64.	Technician		
Rewind			
65.	Core Test Results - Watts loss per Pound		
	Pre-Burnout	Post Burnout	
66.	Core Hot Spot Test		
	Pre-Burnout	Post-Burnout	
67.	Post Rewind Electrical Test- Insulation Resistance		
68.	Post Rewind Polarization Index		
69.	Post Rewind Winding Resistance		
	1-2	1-3	2-3
70.	Post Rewind Surge Test		
71.	Post Rewind Hi-Pot		
72.	Technician		
Root Cause of Failure			
73.	Failure locations		
74.	Root cause of failure		
Mechanical Fits- Rotor - Post Repair			
75.	Shaft Runout Post Repair		
76.	Rotor Runout Post Repair		
	Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing
77.	Coupling Fit Closest to Bearing Housing Post Repair		
	0 Degrees	90 Degrees	120 Degrees
78.	Coupling Fit Closest to the end of the Shaft Post Repair		
	0 Degrees	60 Degrees	120 Degrees
79.	Drive End Bearing Shaft Fit Post Repair		
	0 Degrees	60 Degrees	120 Degrees
80.	Opposite Drive End Bearing Shaft Fit Post Repair		
	0 Degrees	60 Degrees	120 Degrees
81.	Shaft Air Seal Fits Post Repair		
	Drive End Air Seal	Opposite Drive End Air Seal	
82.	Shaft Repair Sign-off		
Mechanical Fits- Bearing Housings - Post Repair			

83.	Drive End - Endbell Bearing Fit Post Repair		
	0 Degrees	60 Degrees	120 Degrees
84.	Opposite Drive End - Endbell Bearing Fit Post Repair		
	0 Degrees	60 Degrees	120 Degrees
85.	Bearing Cap Condition Post Repair		
	Drive End Bearing Cap	Opposite Drive End Bearing Cap	
86.	End Bell Air Seal Fits Post Repair		
	Drive End Air Seal	Opposite Drive End Air Seal	
87.	End Bell Repair Sign-off		
Assembly			
88.	QC Check All Parts for Cleanliness Prior to Assembly		
89.	Photograph All Major Components prior to assembly		
90.	Final Insulation Resistance Test		
91.	Assembled Shaft Endplay		
92.	Assembled Shaft Runout		
93.	Test Run Voltage		
	Volts	Volts	Volts
94.	Test Run Amperage		
	Amps	Amps	Amps
95.	Drive End Vibration Readings - Inches Per Second		
	Horizontal	Vertical	Axial
96.	Opposite Drive End Vibration Readings - Inches Per Second		
	Horizontal	Vertical	Axial
97.	Ambient Temperature - Fahrenheit		
98.	Drive End Bearing Temps - Fahrenheit		
	5 Minutes	10 Minutes	15 Minutes
99.	Opposite Drive End Bearing Temps - Fahrenheit		
	5 Minutes	10 Minutes	15 Minutes
100.	Document Final Condition with Pictures after paint		
101.	Final Pics and QC Review		