



AC Inspection as Found

Sage V Foods

5901 SLOAN DRIVE

LITTLE ROCK, AR 72206

FolderID: 103385
FormID: 21312427

AC Inspection - Rev. 2

Location: MOTOR SHOP LR

Serial Number: EF5T46663H-F4-8-8/20

Description: 0.5HO SWECO MOTOR EVAL

Hi-Speed Job Number:	103385
Manufacturer:	Other
Serial Number:	EF5T46663H-F4-8-8/20
HP/kW:	0.5 (HP)
RPM:	1160 (RPM)
Frame:	143TZX
Voltage:	460
Current:	1.45
Phase:	Three
Hz:	60 (Hz)
Service Factor:	1.0
Enclosure:	TENV
# of Leads:	3
J-box Included:	None
Coupling/Sheave:	None
Date Received:	08/15/2024
Bearing RTDs:	No
Stator RTDs:	No
Repair Stage:	Final
Rewind:	No
Shaft Machined Fit Repairs Required:	No
Bearing Housing Machined Fit Repairs Required:	No
Heaters:	No
Winding Type :	Random Wound
Bearing Type:	Rolling Element

Priorities Found: 5 - High 8 - Good

Overall Condition



1. Report Date

08/21/2024





4. Describe the Overall Condition of the Equipment as Received
Dirty and locked up

5. Report Date [COPY]

Initial Mechanical/Electrical

6.	Does Shaft Turn Freely?	(N) No
7.	Does the shaft require T.I.R in Lathe to identify additional repairs?	(No) No
8.	Does Shaft Have Visible Damage?	(No) No
9.	Assembled Shaft Runout	Inches
10.	Assembled Shaft End Play	inches
11.	Air Gap Variation <10%	

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12.	Lead Condition	(F) Fail
	<i>Leads were cut showing bare wires and one was blown in half</i>	
13.	Lead Length	24 Inches
14.	Does it have Lugs?, If so what is the Stud Size?	(No) No
15.	Lead Numbers	1-3
16.	Frame Condition	pass
17.	Fan Condition	(N) NA
18.	Broken or Missing Components	1 j-box cover bolt

Initial Electrical Inspection



19.	Insulation Resistance/Megger	Megohms	P8
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Coil 2 (Ohms)	41.18	Corr: 41....	1787.6 Co
Coil 3 (Ohms)	41.35	Corr: 41....	1787.6 Co
Megohm Stat...	PASS	No Test	
Volts (V)	494		
I(μA)	0.0401		
Resist	12327		
At 40°C	3328		
PI Status	No Test	No Test	
Nameplate	Application	Results Summary	

20.	Winding Resistance		P20
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1-2	1-3	2-3
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Test Time	4:34:54 PM	4:34:55 PM	
Temp Com...	Thermoplastic	Thermoplastic	N
Resist Status	PASS	MAX R Range...	N
Bal L1 (Ohms)			
Bal L2 (Ohms)			
Bal L3 (Ohms)			
L1-L2 (Ohms)	27.49	Corr: 27....	27.46
L2-L3 (Ohms)	27.49	Corr: 27....	901.0
L3-L1 (Ohms)	27.54	Corr: 27....	901.0
Max Delta R %	0.211		143.251
Coil 1 (Ohms)	41.18	Corr: 41....	27.66
Coil 2 (Ohms)	41.18	Corr: 41....	1787.6
Coil 3 (Ohms)	41.35	Corr: 41....	1787.6
PI Status	No Test	No Test	No Test
Nameplate	Application	Results Summary	Summary

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22. Number of Stator Slots	36
23. Stator Condition	pass
24. Stator Thermistors/Ohms	
25. Stator Overloads/Ohms	

Mechanical Inspection

26. Drive End Bearing Brand	FAG
27. Drive End Bearing Number-	22308
28. Drive End Bearing Qty.	1
29. Drive End Bearing Type	(Tapered) Tapered Roller Bearing
30. Drive End Lubrication Type	(Grease) Grease Lubricated
31. Drive End Bearing Insulation or Grounding Device?	
32. Drive End Wavy Washer/Snap-Ring Other Retention Device?	snap ring
33. Drive End Bearing Condition	

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Contamination and wear



34. Opposite Drive End Bearing Brand	FAG
35. Opposite Drive End Bearing Number-	NU307
36. Opposite Drive End Bearing Qty.	1
37. Opposite Drive End Bearing Type	(Roller) Roller Bearing
38. Opposite Drive End Lubrication Type	(Grease) Grease Lubricated
39. Opposite Drive End Bearing Insulation or Grounding Device?	
40. Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?	snap ring

Contamination




42. Drive End Seal national
340853
43. Opposite Drive End Seal national
340853




Rotor Inspection

44. Rotor Type/Material (Squirrel Aluminum) Squirrel
Cage Aluminum Die Cast
45. Growler Test (Pass) Pass
46. Number of Rotor Bars
47. Rotor Condition pass
48. List the Parts needed for the Repair Below
22308-E1-XL-T41A
NU307
SEAL- National 340853x2
New cord 4/c 12awg
New snap rings
49. Signature of Technician that Disassembled Motor Cw
- [Handwritten Signature]*

Mechanical Fits- Rotor

50. Shaft Runout inches
51. Rotor Runout
- | Drive End Bearing Fit | Rotor Body | Opposite Drive End Bearing |
|--|------------|----------------------------|
| 52. Coupling Fit Closest to Bearing Housing | | |
| 0 Degrees | 90 Degrees | 120 Degrees |
| 53. Coupling Fit Closest to the end of the Shaft | | |
| 0 Degrees | 60 Degrees | 120 Degrees |

54.	Drive End Bearing Shaft Fit		
	0 Degrees	60 Degrees	120 Degrees
	1.5782	1.5782	1.5781
55.	Drive End Bearing Shaft Fit Condition		(P) Pass
56.	Opposite Drive End Bearing Shaft Fit		
	0 Degrees	60 Degrees	120 Degrees
	1.3785	1.3784	1.3785
57.	Opposite Drive End Bearing Shaft Fit Condition		(P) Pass
58.	Shaft Air Seal Fits		
	Drive End Air Seal	Opposite Drive End Air Seal	
Mechanical Fits- Bearing Housings			
59.	Drive End - Endbell Bearing Fit		
	0 Degrees	60 Degrees	120 Degrees
	3.5415	3.5415	3.5415
60.	Drive End - Endbell Bearing Fit Condition		(P) Pass
61.	Opposite Drive End - Endbell Bearing Fit		
	0 Degrees	60 Degrees	120 Degrees
	3.1493	3.1493	3.1493
62.	Opposite Drive End - Endbell Bearing Fit Condition		(P) Pass
63.	Bearing Cap Condition		
	Drive End Bearing Cap	Opposite Drive End Bearing Cap	
	<div> <div></div> <div>Pass</div> </div>		
64.	End Bell Air Seal Fits		
	Drive End Air Seal	Opposite Drive End Air Seal	
65.	List Machine Work Needed Below		
66.	Technician		Cw
			
	<div> <div></div> <div>Co sign: RRW</div> </div>		
Root Cause of Failure			
67.	Failure locations		
	<i>Bearings and cord</i>		
68.	Root cause of failure		
	<i>Cord was cut and bearings have contaminants</i>		
Dynamic Balance Report			
69.	Rotor Weight and Balance Grade		
	Rotor Weight	Balance Grade	
70.	Initial Balance Readings		
	Drive End	Opposite Drive End	

71. Final Balance Readings	
Drive End	Opposite Drive End
72. Technician	
Assembly <div></div>	
73. QC Check All Parts for Cleanliness Prior to Assembly	
74. Photograph All Major Components prior to assembly	P17
<div>    </div>	
75. Final Insulation Resistance Test	Megohms
76. Assembled Shaft Endplay	
77. Assembled Shaft Runout	

78. Test Run Voltage

Volts	Volts	Volts
457	456	459



79. Test Run Amperage

Amps	Amps	Amps
1	1.1	1.1

80. Drive End Vibration Readings - Inches Per Second

Horizontal	Vertical	Axial
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81. Opposite Drive End Vibration Readings - Inches Per Second

Horizontal	Vertical	Axial
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82. Ambient Temperature - Fahrenheit

83. Drive End Bearing Temps - Fahrenheit

5 Minutes	10 Minutes	15 Minutes
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84. Opposite Drive End Bearing Temps - Fahrenheit

5 Minutes	10 Minutes	15 Minutes
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85. Document Final Condition with Pictures after paint

see below

86. Final Pics and QC Review

Terrence Holland

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