

Hi-Speed Industrial Service 7030 Ryburn Dr Millington, Tn 38053 901-873-5300

> FolderID: 103385 FormID: 21312427

## **AC Inspection as Found**

Sage V Foods 5901 SLOAN DRIVE **LITTLE ROCK, AR 72206** 

AC Inspection - Rev. 2

MOTOR SHOP LR Location: 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: 6 5 - High



8 - Good

### **Overall Condition**

0

Report Date

08/21/2024



3. Photos of all six sides of the machine.



















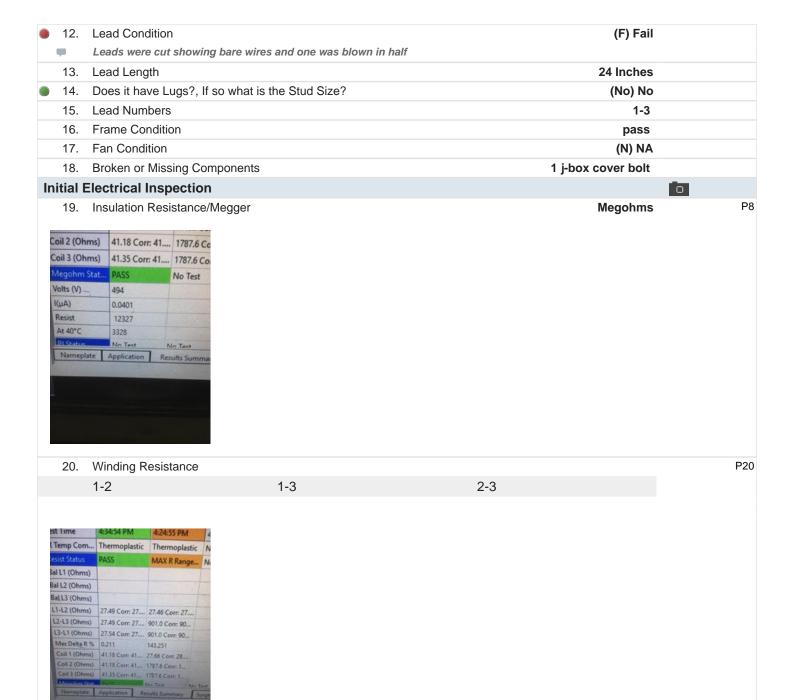




- 4. Describe the Overall Condition of the Equipment as Received *Dirty and locked up*
- 5. Report Date [COPY]

# 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%	





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

Mechanical Inspection				
26. Drive En	d Bearing Brand	FAG		
27. Drive En	d Bearing Number-	22308		
28. Drive En	d Bearing Qty.	1		
29. Drive En	d Bearing Type	(Tapered) Tapered Roller Bearing		
30. Drive En	d Lubrication Type	(Grease) Grease Lubricated		
31. Drive En	d Bearing Insulation or Grounding Device?			
32. Drive En	d Wavy Washer/Snap-Ring Other Retention Device?	snap ring		
33. Drive En	d Bearing Condition		P83	

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	

Cw

### Contamination



SEAL- National 340853x2 New cord 4/c 12awg New snap rings

49. Signature of Technician that Disassembled Motor

<b>42.</b>	Drive End Seal 340853	national
<b>43</b> .	Opposite Drive End Seal 340853	national
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	

Mecha	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.	3. 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 Condi	tion	(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		
Me	echar	nical Fits- Bearing Housings			
		Drive End - Endbell Bearing Fit			
	00.	0 Degrees	60 Degrees	120 Degrees	
		3.5415	3.5415	3.5415	
	60.	Drive End - Endbell Bearing Fit Co		(P) Pass	
	61.	Opposite Drive End - Endbell Bea		(F) Pd55	
	01.	• •		400 Daggara	
		0 Degrees	60 Degrees	120 Degrees	
	00	3.1493	3.1493	3.1493	
	62.	Opposite Drive End - Endbell Bea	ring Fit Condition	(P) Pass	
	63.	Bearing Cap Condition	0 5 . 5 . 5 . 0		
		Drive End Bearing Cap	Opposite Drive End Bearing Cap		
		_			
	7	Pass			
	64.	End Bell Air Seal Fits			
		Drive End Air Seal	Opposite Drive End Air Seal		
	65.	List Machine Work Needed Below			
	66.	Technician		Cw	
		1/100			
		Mon			
		Co sign: RRW			
Ro	oot C	ause of Failure			
		Failure locations			
	J	Bearings and cord			
	68.	Root cause of failure			
	50.	Cord was cut and bearings have co	ntaminants		
יח	ınam	ic Balance Report			
Dy	69.	Rotor Weight and Balance Grade			
	09.	•	Palanca Crada		
		Rotor Weight	Balance Grade		
	70	Initial Dalance Deads			
	70.	Initial Balance Readings	0 " D: E:		
		Drive End	Opposite Drive End		

71. Final Balance Readings

Drive End Opposite Drive End

72. Technician

### **Assembly**

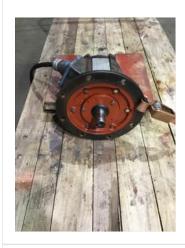
0

- 73. QC Check All Parts for Cleanliness Prior to Assembly
- 74. Photograph All Major Components prior to assembly

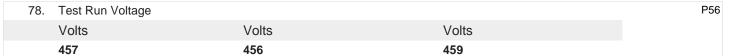
P17







- 75. Final Insulation Resistance Test Megohms
- 76. Assembled Shaft Endplay
- 77. Assembled Shaft Runout





79.	Test Run Amperage			
	Amps	Amps	Amps	
	1	1.1	1.1	
80.	Drive End Vibration Readings - Ir	nches Per Second		
	Horizontal	Vertical	Axial	
81.	Opposite Drive End Vibration Rea	adings - Inches Per Second		
	Horizontal	Vertical	Axial	
82.	Ambient Temperature - Fahrenhe	eit		
83.	Drive End Bearing Temps - Fahre	enheit		
	5 Minutes	10 Minutes	15 Minutes	
84.	Opposite Drive End Bearing Tem	ps - Fahrenheit		
	5 Minutes	10 Minutes	15 Minutes	
85.	Document Final Condition with P	ictures after paint	see below	
86.	Final Pics and QC Review		Terrence Holland	P132

T\_////





