



AC Inspection as Found

Sage V Foods

5901 SLOAN DRIVE
LITTLE ROCK, AR 72206

FolderID: 104183
FormID: 23480703

AC Inspection - Rev. 2

Location: MOTOR SHOP LR

Serial Number: 10-0000-0086

Description: 25 HP SCHAEFFLER

Hi-Speed Job Number: 104183

Manufacturer: Baldor

Serial Number: 10-0000-0086

HP/kW: 25 (HP)

RPM: 1775 (RPM)

Frame: 284T

Voltage: 230 / 460

Current: 62/31 (Amps)

Phase: Three

Hz: 60 (Hz)

Service Factor: 1

Enclosure: TE

of Leads: 9

J-box Included: Half

Coupling/Sheave: None

Date Received: 02/21/2025

Bearing RTDs: No

Stator RTDs: No

Repair Stage: Final

Rewind: Yes

Shaft Machined Fit Repairs
Required: Yes

Bearing Housing Machined
Fit Repairs Required: Yes

Heaters: No

Winding Type : Random Wound

Bearing Type: Rolling Element

Priorities Found:  3 - High  10 - Good

Overall Condition



1. Report Date

02/21/2025

2. Nameplate Picture

P37



3. Photos of all six sides of the machine.

P45







4. Describe the Overall Condition of the Equipment as Received

Dirty/rusted

Initial Mechanical/Electrical



5. Does Shaft Turn Freely?	(Y) Yes	
6. Does the shaft require T.I.R in Lathe to identify additional repairs?	(No) No	
7. Does Shaft Have Visible Damage?	(No) No	
8. Assembled Shaft Runout	Inches	
9. Assembled Shaft End Play	0 inches	
10. Air Gap Variation <10%		
11. Lead Condition	(P) Pass	P69





12. Lead Length	12 Inches	
13. Does it have Lugs?, If so what is the Stud Size?	(No) No	
14. Lead Numbers	1-9	
15. Frame Condition	pass	
16. Fan Condition	(N) NA	
17. Does motor have internal fan?	(No) No	
18. Broken or Missing Components	ODE housing	
Has mount bolt hole broken off		

Initial Electrical Inspection

19. Insulation Resistance/Megger	Megohms	
20. Winding Resistance		
1-2	1-3	2-3

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21.	Perform Surge Test	(NA) Not Applicable	
22.	Number of Stator Slots	48	
23.	Stator Condition	rewind	
24.	Stator Thermistors/Ohms		
25.	Stator Overloads/Ohms		
Mechanical Inspection			
26.	Drive End Bearing Brand	FAG	P12
			
27.	Drive End Bearing Number-	6311 2Z/C3	
28.	Drive End Bearing Qty.	1	
29.	Drive End Bearing Type	(Ball) Ball Bearing	
30.	Drive End Lubrication Type	(Grease) Grease Lubricated	
31.	Drive End Bearing Insulation or Grounding Device?	Aegis ring	P64
			
32.	Drive End Wavy Washer/Snap-Ring Other Retention Device?	none	

33. Drive End Bearing Condition

water contaminated grease

P82



34. Opposite Drive End Bearing Brand

unreadable

35. Opposite Drive End Bearing Number-

6309 2Z/C3

P99



36. Opposite Drive End Bearing Qty.

1

37. Opposite Drive End Bearing Type

(Ball) Ball Bearing

38. Opposite Drive End Lubrication Type

(Grease) Grease Lubricated

39. Opposite Drive End Bearing Insulation or Grounding Device?

none

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

wavy washer

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41. Opposite Drive End Bearing Condition

water contaminated grease

42. Drive End Seal

none

43. Opposite Drive End Seal

none

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Rotor Inspection



44. Rotor Type/Material

(Squirrel Aluminum) Squirrel
Cage Aluminum Die Cast

P3



45. Growler Test (Pass) Pass

46. Number of Rotor Bars 40

47. Rotor Condition pass

48. List the Parts needed for the Repair Below

6309&6311 2Z/C3 bearings.
Replace ODE housing with broken off ear.
Replace aegis ring: shaft measurement is 2.7140
Rewind stator and replace in pro seal on DE housing.

49. Signature of Technician that Disassembled Motor Terrence Holand

Mechanical Fits- Rotor

50. Shaft Runout 0.002 inches

51. Rotor Runout

Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing
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52. Coupling Fit Closest to Bearing Housing

0 Degrees	90 Degrees	120 Degrees
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53. Coupling Fit Closest to the end of the Shaft

0 Degrees	60 Degrees	120 Degrees
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54. Drive End Bearing Shaft Fit

0 Degrees	60 Degrees	120 Degrees
2.1663	2.1664	2.1662

55. Drive End Bearing Shaft Fit Condition (F) Fail

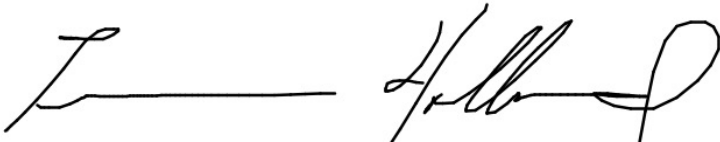
Oversized. Max allowed is 2.6660

56. Opposite Drive End Bearing Shaft Fit

0 Degrees	60 Degrees	120 Degrees
1.7723	1.7722	1.7722

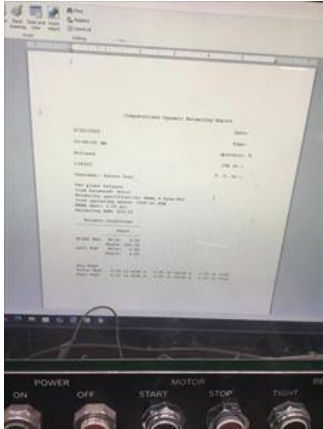
57. Opposite Drive End Bearing Shaft Fit Condition (P) Pass

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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
<div> <i>Bad, lip worn in</i> </div>		
60.	Drive End - Endbell Bearing Fit Condition	(F) Fail
61.	Opposite Drive End - Endbell Bearing Fit	
	0 Degrees	60 Degrees 120 Degrees
<div> <i>Bad, lip worn in.</i> </div>		
62.	Opposite Drive End - Endbell Bearing Fit Condition	(F) Fail
63.	Bearing Cap Condition	
	Drive End Bearing Cap	Opposite Drive End Bearing Cap
	pass	na
64.	End Bell Air Seal Fits	
	Drive End Air Seal	Opposite Drive End Air Seal
65.	List Machine Work Needed Below <i>Machine D.E housing fit. D.E housing fit is oversized</i>	
66.	Technician	Terrence Holland
		
<div> <i>Co sign: CRW</i> </div>		
Root Cause of Failure		
67.	Failure locations <i>Windings shorted.</i>	
68.	Root cause of failure <i>Excessive water moisture inside stator windings.</i>	
Dynamic Balance Report		
69.	Rotor Weight and Balance Grade	
	Rotor Weight	Balance Grade
<div> <i>See below</i> </div>		

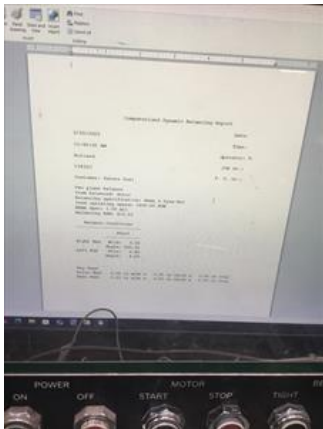
Drive End

Opposite Drive End



Drive End

Opposite Drive End




Rewind

Pre-Burnout

Post Burnout

Pre-Burnout

Post-Burnout

77. Post Rewind Winding Resistance	1-2	1-3	2-3
78. Post Rewind Surge Test			
79. Post Rewind Hi-Pot			micro-amps
80. Technician			
Mechanical Fits- Rotor - Post Repair			
81. Shaft Runout Post Repair			inches
82. Rotor Runout Post Repair			
Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing	
83. Coupling Fit Closest to Bearing Housing Post Repair			
0 Degrees	90 Degrees	120 Degrees	
84. Coupling Fit Closest to the end of the Shaft Post Repair			
0 Degrees	60 Degrees	120 Degrees	
85. Drive End Bearing Shaft Fit Post Repair			
0 Degrees	60 Degrees	120 Degrees	
86. Opposite Drive End Bearing Shaft Fit Post Repair			
0 Degrees	60 Degrees	120 Degrees	
87. Shaft Air Seal Fits Post Repair			
Drive End Air Seal	Opposite Drive End Air Seal		
88. Shaft Repair Sign-off			
Mechanical Fits- Bearing Housings - Post Repair			
89. Drive End - Endbell Bearing Fit Post Repair			P5
0 Degrees	60 Degrees	120 Degrees	
4.725	4.725	4.725	
			
90. Opposite Drive End - Endbell Bearing Fit Post Repair			
0 Degrees	60 Degrees	120 Degrees	

91. Bearing Cap Condition Post Repair

Drive End Bearing Cap

Opposite Drive End Bearing Cap

92. End Bell Air Seal Fits Post Repair

Drive End Air Seal

Opposite Drive End Air Seal

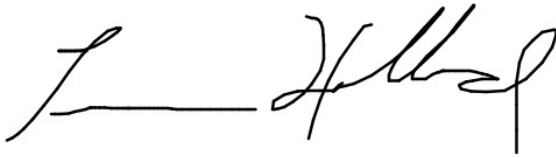
93. End Bell Repair Sign-off

Assembly




94. QC Check All Parts for Cleanliness Prior to Assembly

Terrence Holland







97.	Assembled Shaft Endplay	0 inches	
98.	Assembled Shaft Runout	0.002 inches	
99.	Test Run Voltage		
	Volts	Volts	Volts
	459	456	459
			
100.	Test Run Amperage		
	Amps	Amps	Amps
	20.8	19.9	19.4
101.	Drive End Vibration Readings - Inches Per Second		
	Horizontal	Vertical	Axial
	0.04	0.03	0.05
102.	Opposite Drive End Vibration Readings - Inches Per Second		
	Horizontal	Vertical	Axial
	0.03	0.01	0.070000000000000001
103.	Ambient Temperature - Fahrenheit		
104.	Drive End Bearing Temps - Fahrenheit		
	5 Minutes	10 Minutes	15 Minutes
105.	Opposite Drive End Bearing Temps - Fahrenheit		
	5 Minutes	10 Minutes	15 Minutes
106.	Document Final Condition with Pictures after paint	see below	
107.	Final Pics and QC Review	Terrence Holland	

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L Hill



Co witness: RRW

