



## AC Inspection as Found

### Custom Craft Poultry

3064 E Main St  
Batesville, AR 72501

FolderID: 101957  
FormID: 18100052

#### AC Inspection - Rev. 2

Location: Shop  
Serial Number: 870277766.01.01.001  
Description: SEW GEARMOTOR 73.15 RATIO

Hi-Speed Job Number:	101957
Manufacturer:	SEW Eurodrive
Product Number:	R83FA-KS
Serial Number:	870277766.01.01.001
Voltage:	230 / 460
Phase:	Three
Hz:	60 (Hz)
Enclosure:	TEFC
J-box Included:	Complete
Coupling/Sheave:	Gear
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                             | 10/26/2023 |
| 2. Nameplate Picture                       | na         |
| 3. Photos of all six sides of the machine. | P45        |













4. Describe the Overall Condition of the Equipment as Received

*Serviceable*

5. Distance from the end of the shaft to the Coupling/Sheave

**0 inches**

**Initial Mechanical/Electrical**



6. Does Shaft Turn Freely?

**(Yes) Yes**

7. Does Shaft Have Visible Damage?

**(No) No**

P20



8. Assembled Shaft Runout

**0.001 Inches**

9. Assembled Shaft End Play

10. Air Gap Variation <10%

11. Lead Condition

(P) Pass

P55



12. Lead Length

5 Inches

13. Lead Numbers

9

14. Frame Condition

windings saturated with oil.

P94



15. Fan Condition

(F) Fail

P96

Cracked



16. Broken or Missing Components

P100

Connection box cover mount bolts, need replaced.

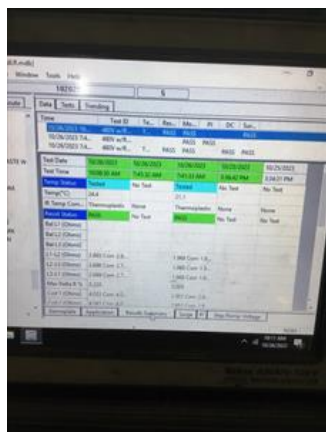




1-2

1-3

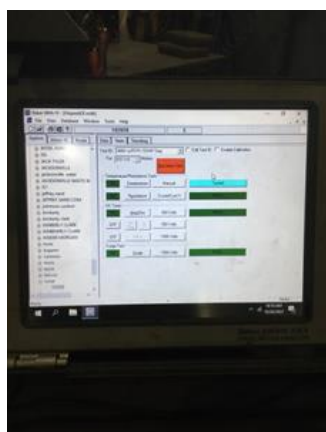
2-3



## 19. Perform Surge Test

(P) Pass

P57



20. Number of Stator Slots

36

21. Stator Condition

pass

22. Stator Thermistors/Ohms

na

23. Stator Overloads/Ohms

na

## Mechanical Inspection



24. Drive End Bearing Brand

KBC

P14









25. Drive End Bearing Number-

6307 2RS

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26. Drive End Bearing Qty.	1	
27. Drive End Bearing Type	(Ball) Ball Bearing	P49
<div>   </div>		
28. Drive End Lubrication Type	(Grease) Grease Lubricated	
29. Drive End Bearing Insulation or Grounding Device?	none	
30. Drive End Wavy Washer/Snap-Ring Other Retention Device?	snap ring	P73
<div>   </div>		
31. Drive End Bearing Condition	replace	P78
<div>   </div>		



Damage due to contaminated lubricant

32.	Opposite Drive End Bearing Brand	KBC	
33.	Opposite Drive End Bearing Number-	6207 D	P90
			
34.	Opposite Drive End Bearing Qty.	1	



*Damage due to contaminated lubricant*

36. Opposite Drive End Lubrication Type

(Grease) Grease Lubricated

37. Opposite Drive End Bearing Insulation or Grounding Device?

none

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

wavy washer

P99



39. Opposite Drive End Bearing Condition

replace

40. Drive End Seal

35\*52\*7

P102



41. Opposite Drive End Seal

na

### Rotor Inspection



42. Rotor Type/Material

(Squirrel Aluminum) Squirrel  
Cage Aluminum Die Cast

P3



43. Growler Test

(Pass) Pass

44. Number of Rotor Bars

28

P28







Seal surface worn

46. List the Parts needed for the Repair Below

47. Signature of Technician that Disassembled Motor

☐ Replace all seals and bearings. Repair shaft seal surface.

### Mechanical Fits- Rotor

48. Shaft Runout **0.001 inches**

49. Rotor Runout

Drive End Bearing Fit

Rotor Body

Opposite Drive End Bearing

☐ Na

50. Coupling Fit Closest to Bearing Housing

0 Degrees

90 Degrees

120 Degrees

☐ Na

51. Coupling Fit Closest to the end of the Shaft

0 Degrees

60 Degrees

120 Degrees

52. Drive End Bearing Shaft Fit

0 Degrees

60 Degrees

120 Degrees

**1.3783**

**1.3783**

**1.3782**

● 53. Drive End Bearing Shaft Fit Condition **(P) Pass**

54. Opposite Drive End Bearing Shaft Fit

0 Degrees

60 Degrees

120 Degrees

**1.3782**

**1.3782**

**1.3781**

● 55. Opposite Drive End Bearing Shaft Fit Condition **(P) Pass**

56. Shaft Air Seal Fits

Drive End Air Seal

Opposite Drive End Air Seal

### Mechanical Fits- Bearing Housings



57. Drive End - Endbell Bearing Fit

0 Degrees

60 Degrees



120 Degrees

**3.1502**

**3.1503**

**3.1503**

● 58. Drive End - Endbell Bearing Fit Condition **(P) Pass**

59.	Opposite Drive End - Endbell Bearing Fit		
	0 Degrees	60 Degrees	120 Degrees
	<b>2.8346</b>	<b>2.8347</b>	<b>2.8347</b>
60.	Opposite Drive End - Endbell Bearing Fit Condition		(P) Pass
61.	Bearing Cap Condition		
	Drive End Bearing Cap	Opposite Drive End Bearing Cap	
	na	na	
62.	End Bell Air Seal Fits		
	Drive End Air Seal	Opposite Drive End Air Seal	
63.	List Machine Work Needed Below		P64
	<i>D.E shaft seal surface</i>		
			
64.	Technician		Terrence. Holland
			
<b>Dynamic Balance Report</b>			
65.	Rotor Weight and Balance Grade		
	Rotor Weight	Balance Grade	
66.	Initial Balance Readings		
	Drive End	Opposite Drive End	
67.	Final Balance Readings		
	Drive End	Opposite Drive End	
68.	Technician		
<b>Rewind</b>			
69.	Core Test Results - Watts loss per Pound		
	Pre-Burnout	Post Burnout	

70.	Core Hot Spot Test		
	Pre-Burnout	Post-Burnout	
71.	Post Rewind Electrical Test- Insulation Resistance		
72.	Post Rewind Polarization Index		
73.	Post Rewind Winding Resistance		
	1-2	1-3	2-3
74.	Post Rewind Surge Test		
75.	Post Rewind Hi-Pot		
76.	Technician		
Root Cause of Failure			
77.	Failure locations		
78.	Root cause of failure		
Mechanical Fits- Rotor - Post Repair			
79.	Shaft Runout Post Repair		
80.	Rotor Runout Post Repair		
	Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing
81.	Coupling Fit Closest to Bearing Housing Post Repair		
	0 Degrees	90 Degrees	120 Degrees
82.	Coupling Fit Closest to the end of the Shaft Post Repair		
	0 Degrees	60 Degrees	120 Degrees
83.	Drive End Bearing Shaft Fit Post Repair		
	0 Degrees	60 Degrees	120 Degrees
84.	Opposite Drive End Bearing Shaft Fit Post Repair		
	0 Degrees	60 Degrees	120 Degrees
85.	Shaft Air Seal Fits Post Repair		
	Drive End Air Seal	Opposite Drive End Air Seal	
86.	Shaft Repair Sign-off		
Mechanical Fits- Bearing Housings - Post Repair			
87.	Drive End - Endbell Bearing Fit Post Repair		
	0 Degrees	60 Degrees	120 Degrees
88.	Opposite Drive End - Endbell Bearing Fit Post Repair		
	0 Degrees	60 Degrees	120 Degrees
89.	Bearing Cap Condition Post Repair		
	Drive End Bearing Cap	Opposite Drive End Bearing Cap	

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