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

AC Recondition As Found

Custom Craft Poultry
3064 E Main St
Batesville, AR 72501

FolderID: 100990
FormID: 16050557

AC Recondition - Rev. 2

Location:	Shop
Serial Number:	15141 - MOTOR

Description:2HP JBT FOODTECH GEARMOTOR 1800RPM 90L

Hi-Speed Job Number:	100990
Manufacturer:	SEW Eurodrive
Product Number:	R83FDT90L4
Serial Number:	15141
HP/kW:	2 (HP)
RPM:	1720 (RPM)
Frame:	90L
Voltage:	230 / 460
Current:	6.2/3.1
Phase:	Three
Hz:	60 (Hz)
Service Factor:	1.15
Enclosure:	TEFC
J-box Included:	Half
Bearing RTDs:	No
Stator RTDs:	No
Repair Stage:	Final
Heaters:	No
Winding Type :	Random Wound
Bearing Type:	Rolling Element

Priorities Found: **3 - Good**

Overall Condition

1. Report Date

2. Nameplate Picture P37

3. Photos of all six sides of the machine. P44

4. Describe the Overall Condition of the Equipment as Received
5. Distance from the end of the shaft to the Coupling/Sheave

Initial Mechanical/Electrical

6.	Does Shaft Turn Freely?	**(Yes) Yes**	P1

7.	Does Shaft Have Visible Damage?		
8.	Assembled Shaft Runout		
9.	Assembled Shaft End Play		
10.	Air Gap Variation <10%		
11.	Lead Condition	**(P) Pass**	
	One lead was missing terminal. And connection block is broken.		
12.	Lead Length		
13.	Frame Condition		
14.	Fan Condition	**(P) Pass**	P92

15.	Broken or Missing Components	**connection block**	P95

Initial Electrical Inspection

16. Insulation Resistance/Megger

17. Winding Resistance

1-2	1-3	2-3

18. Perform Surge Test

19. Number of Stator Slots

20. Stator Condition

Mechanical Inspection

21. Drive End Bearing Brand

22. Drive End Bearing Number-

23. Drive End Bearing Qty.

24. Drive End Bearing Type

25. Drive End Lubrication Type

26. Drive End Bearing Insulation or Grounding Device?

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

28. Drive End Bearing Condition

29. Opposite Drive End Bearing Brand

30. Opposite Drive End Bearing Number-

31. Opposite Drive End Bearing Qty.

32. Opposite Drive End Bearing Type

33. Opposite Drive End Lubrication Type

34. Opposite Drive End Bearing Insulation or Grounding Device?

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

36. Opposite Drive End Bearing Condition

37. Drive End Seal

38. Opposite Drive End Seal

Rotor Inspection

39. Rotor Type/Material

40. Growler Test

41. Number of Rotor Bars

42. Rotor Condition

43. List the Parts needed for the Repair Below

44. Signature of Technician that Disassembled Motor

Mechanical Fits- Rotor

45. Shaft Runout

46. Rotor Runout

Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing

47. Coupling Fit Closest to Bearing Housing

0 Degrees	90 Degrees	120 Degrees

48. Coupling Fit Closest to the end of the Shaft

0 Degrees	60 Degrees	120 Degrees

49. Drive End Bearing Shaft Fit

0 Degrees	60 Degrees	120 Degrees

50.	Drive End Bearing Shaft Fit Condition		
51.	Opposite Drive End Bearing Shaft Fit		
	0 Degrees	60 Degrees	120 Degrees
52.	Opposite Drive End Bearing Shaft Fit Condition		
53.	Shaft Air Seal Fits		
	Drive End Air Seal	Opposite Drive End Air Seal	

Mechanical Fits- Bearing Housings

54.	Drive End - Endbell Bearing Fit		
	0 Degrees	60 Degrees	120 Degrees
55.	Drive End - Endbell Bearing Fit Condition		
56.	Opposite Drive End - Endbell Bearing Fit		
	0 Degrees	60 Degrees	120 Degrees
57.	Opposite Drive End - Endbell Bearing Fit Condition		
58.	Bearing Cap Condition		
	Drive End Bearing Cap	Opposite Drive End Bearing Cap	
59.	End Bell Air Seal Fits		
	Drive End Air Seal	Opposite Drive End Air Seal	
60.	List Machine Work Needed Below		
61.	Technician		

Dynamic Balance Report

62.	Rotor Weight and Balance Grade		
	Rotor Weight	Balance Grade	
63.	Initial Balance Readings		
	Drive End	Opposite Drive End	
64.	Final Balance Readings		
	Drive End	Opposite Drive End	
65.	Technician		

Rewind

66.	Core Test Results - Watts loss per Pound		
	Pre-Burnout	Post Burnout	
67.	Core Hot Spot Test		
	Pre-Burnout	Post-Burnout	
68.	Post Rewind Electrical Test- Insulation Resistance		
69.	Post Rewind Polarization Index		

70.	Post Rewind Winding Resistance		
	1-2	1-3	2-3
71.	Post Rewind Surge Test		
72.	Post Rewind Hi-Pot		
73.	Technician		

Root Cause of Failure

74.	Failure locations		
75.	Root cause of failure		

Mechanical Fits- Rotor - Post Repair

76.	Shaft Runout Post Repair		
77.	Rotor Runout Post Repair		
	Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing
78.	Coupling Fit Closest to Bearing Housing Post Repair		
	0 Degrees	90 Degrees	120 Degrees
79.	Coupling Fit Closest to the end of the Shaft Post Repair		
	0 Degrees	60 Degrees	120 Degrees
80.	Drive End Bearing Shaft Fit Post Repair		
	0 Degrees	60 Degrees	120 Degrees
81.	Opposite Drive End Bearing Shaft Fit Post Repair		
	0 Degrees	60 Degrees	120 Degrees
82.	Shaft Air Seal Fits Post Repair		
	Drive End Air Seal	Opposite Drive End Air Seal	
83.	Shaft Repair Sign-off		

Mechanical Fits- Bearing Housings - Post Repair

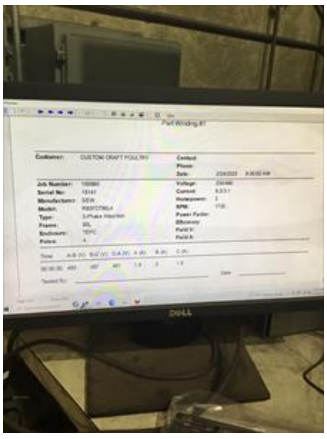
84.	Drive End - Endbell Bearing Fit Post Repair		
	0 Degrees	60 Degrees	120 Degrees
85.	Opposite Drive End - Endbell Bearing Fit Post Repair		
	0 Degrees	60 Degrees	120 Degrees
86.	Bearing Cap Condition Post Repair		
	Drive End Bearing Cap	Opposite Drive End Bearing Cap	
87.	End Bell Air Seal Fits Post Repair		
	Drive End Air Seal	Opposite Drive End Air Seal	
88.	End Bell Repair Sign-off		

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. Final Test Run Sign-off **Terrence Holland** P100



101. Document Final Condition with Pictures after paint P101