



## AC Inspection as Found

### Custom Craft Poultry

3064 E Main St  
Batesville, AR 72501

FolderID: 101956  
FormID: 18100043

#### AC Inspection - Rev. 2

Location: Shop

Serial Number: 10853

Description: FMC FOODTECH GEARMOTOR  
121.12 RATIO

Hi-Speed Job Number: 101956

Manufacturer: Other

Product Number: 117091X

Spec/ID #: R83F/A

Serial Number: 10853

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 ● 6 - Good

#### Overall Condition



1. Report Date

10/26/2023

2. Nameplate Picture

P37



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

**0.002 Inches**

9. Assembled Shaft End Play

**0 inches**

10. Air Gap Variation <10%

**na**

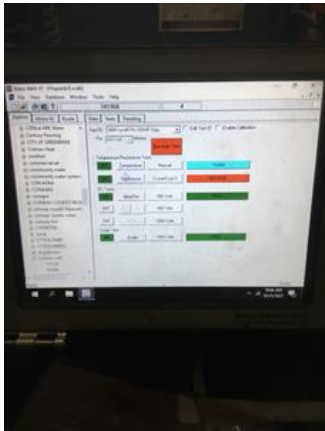
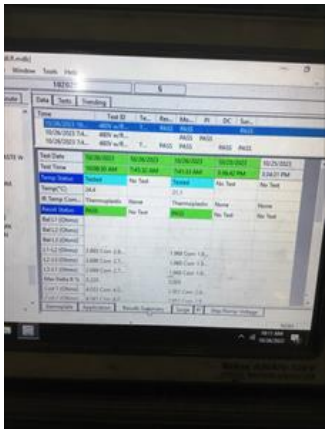
11. Lead Condition

**(P) Pass**

12. Lead Length

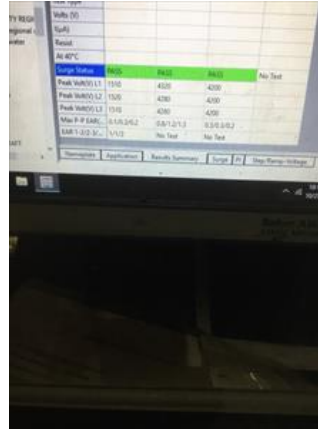
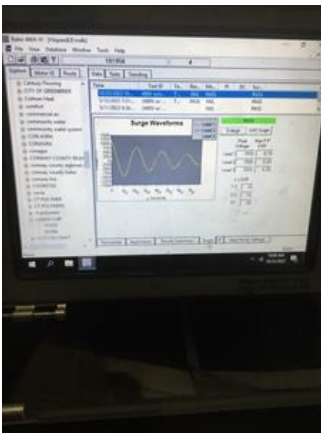
**6 Inches**

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13.	Lead Numbers	1-9
14.	Frame Condition	pass
15.	Fan Condition	(N) NA
	Missing	
16.	Broken or Missing Components	
	Fan and fan cover missing.	
Initial Electrical Inspection		
17.	Insulation Resistance/Megger	Megohms
		P8
		
18.	Winding Resistance	P18
	1-2	1-3
	2.693	2.696
		2-3
		2.699
		
19.	Perform Surge Test	(P) Pass
	Pass	P57

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
20. Number of Stator Slots	48	
21. Stator Condition	pass	
22. Stator Thermistors/Ohms	na	
23. Stator Overloads/Ohms	na	
<b>Mechanical Inspection</b>		
24. Drive End Bearing Brand	NTN	
25. Drive End Bearing Number-	6306	P30



26. Drive End Bearing Qty.	1	
27. Drive End Bearing Type	(Ball) Ball Bearing	
28. Drive End Lubrication Type	(Grease) Grease Lubricated	
29. Drive End Bearing Insulation or Grounding Device?	none	

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30.	Drive End Wavy Washer/Snap-Ring Other Retention Device?	snap ring	
31.	Drive End Bearing Condition	replace	
32.	Opposite Drive End Bearing Brand	NTN	
33.	Opposite Drive End Bearing Number-	6205	P90
<div>   </div>			
34.	Opposite Drive End Bearing Qty.	1	
35.	Opposite Drive End Bearing Type	(Ball) Ball Bearing	
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?	na	
39.	Opposite Drive End Bearing Condition	replace	
40.	Drive End Seal	30*17*10 motor	P102
	65*90*10 gearbox		
			
41.	Opposite Drive End Seal	na	
Rotor Inspection			



43. Growler Test (Pass) Pass
44. Number of Rotor Bars 28
45. Rotor Condition pass
46. List the Parts needed for the Repair Below  
(1) Seal 30\*17\*10. (1) 205 end bell sleeve. (1) fan and fan cover.
47. Signature of Technician that Disassembled Motor Terrence Holland

**Mechanical Fits- Rotor**

48. Shaft Runout 0.002 inches
49. Rotor Runout
- | Drive End Bearing Fit                                       | Rotor Body                  | Opposite Drive End Bearing |
|---|-----------------------------|----------------------------|
| 50. Coupling Fit Closest to Bearing Housing                 |                             |                            |
| 0 Degrees   | 90 Degrees                  | 120 Degrees                |
| 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                |
| 1.1813  | 1.1813                      | 1.1813                     |
| 53. Drive End Bearing Shaft Fit Condition (P) Pass          |                             |                            |
| 54. Opposite Drive End Bearing Shaft Fit                    |                             |                            |
| 0 Degrees   | 60 Degrees                  | 120 Degrees                |
| 0.9844000000000001  | 0.9845                      | 0.9843                     |
| 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

58. Drive End - Endbell Bearing Fit Condition

59. Opposite Drive End - Endbell Bearing Fit

0 Degrees

60 Degrees

120 Degrees

60. Opposite Drive End - Endbell Bearing Fit Condition

(F) Fail

P41

 Lip worn in, and excessive wear.



61. Bearing Cap Condition

Drive End Bearing Cap

Opposite Drive End Bearing Cap

 Na

62. End Bell Air Seal Fits

Drive End Air Seal

Opposite Drive End Air Seal

63. List Machine Work Needed Below

*Machine ODE housing.*

64. Technician

Terrence Holland

## Dynamic Balance Report

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

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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		
<b>Root Cause of Failure</b>			
77.	Failure locations		
78.	Root cause of failure		
<b>Mechanical Fits- Rotor - Post Repair</b>			
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		
<b>Mechanical Fits- Bearing Housings - Post Repair</b>			
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		