



## AC Inspection as Found

### Custom Craft Poultry

3064 E Main St  
Batesville, AR 72501

FolderID: 103922  
FormID: 22717255

#### AC Inspection - Rev. 2

Location: MOTOR SHOP LR

Serial Number: XWFFKA03

Description: 100 HP G.E

Hi-Speed Job Number: 103922

Manufacturer: GE

Product Number: 5KE405SFC224B

Serial Number: XWFFKA03

HP/kW: 100 (HP)

RPM: 1785 (RPM)

Frame: 405TC

Voltage: 460

Current: 109 (Amps)

Phase: Three

Hz: 60 (Hz)

Service Factor: 1.15

Enclosure: TEFC

# of Leads: 3

J-box Included: Complete

Coupling/Sheave: None

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: Yes

Winding Type : Random Wound

Bearing Type: Rolling Element

Priorities Found:  11 - Good

#### Overall Condition



1. Report Date

01/15/2025




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*Broken fan cover mount bolt*



4. Describe the Overall Condition of the Equipment as Received  
*Serviceable*

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	0.003 Inches	
9. Assembled Shaft End Play	0 inches	
10. Air Gap Variation <10%		
11. Lead Condition	(P) Pass	P69



12. Lead Length 11 Inches

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13.	Does it have Lugs?, If so what is the Stud Size?	(No) No	
14.	Lead Numbers	T1-T3	
15.	Frame Condition	pass	
16.	Fan Condition	(P) Pass	P115



Metal fan

17.	Heater Quantity, Ratings		P117
Quantity	Volts/Watts	Pass/Fail	
1	120/100	pass	



18.	Broken or Missing Components	
	2 ea broken off bolts in ODE housing for fan cover mount bolts	

## Initial Electrical Inspection





## 20. Winding Resistance

P20

1-2

1-3

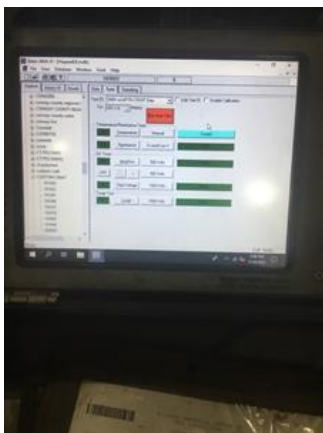
2-3

Test Date	1/14/2023	1/13/2023	1/10/2023
Test Time	3:56:47 PM	7:42:09 AM	9:11:38 AM
Test Status	PASS	PASS	PASS
Bal L1 (Ohms)			
Bal L2 (Ohms)			
Bal L3 (Ohms)			
L1-L2 (Ohms)	0.0545 Core 0...	0.0746	0.449
L2-L3 (Ohms)	0.0545 Core 0...	0.0746	0.449
L3-L1 (Ohms)	0.0539 Core 0...	0.0746	0.450
Max Delta R %	1.072	0.005	0.106
Coil 1 (Ohms)	0.0299 Core 0...	0.0373	0.225
Coil 2 (Ohms)	0.0279 Core 0...	0.0373	0.224
Coil 3 (Ohms)	0.0278 Core 0...	0.0373	0.225
Megohm Scale	PASS	PASS	PASS
Units/Ω	Ω	Ω	Ω
Report Date			
Application			
Results Summary			
Surge	P		

## 21. Perform Surge Test

(P) Pass

P57



## 22. Number of Stator Slots

60

## 23. Stator Condition

pass

## 24. Stator Thermistors/Ohms

## 25. Stator Overloads/Ohms

## Mechanical Inspection



26. Drive End Bearing Brand

SKF

P12



27. Drive End Bearing Number-

6316/C3

P32



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?

none

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

snap ring

33. Drive End Bearing Condition

frosting

34. Opposite Drive End Bearing Brand

P92



35. Opposite Drive End Bearing Number-

6314/C3

36. Opposite Drive End Bearing Qty.

1

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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?	none	
41. Opposite Drive End Bearing Condition	replace	
42. Drive End Seal	Va 100	P120



43. Opposite Drive End Seal

### Rotor Inspection



44. Rotor Type/Material

(Squirrel Aluminum) Squirrel  
Cage Aluminum Die Cast

P3



45. Growler Test

(Pass) Pass

46. Number of Rotor Bars

50

47. Rotor Condition

pass

48. List the Parts needed for the Repair Below

*Replace bearings. Remove 2 ea broken fan cover mount bolts out of ODE housing.*

49. Signature of Technician that Disassembled Motor

Terrence Holland


### Mechanical Fits- Rotor

50. Shaft Runout

0.003 inches

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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. Coupling Fit Closest to the end of the Shaft	0 Degrees	60 Degrees	120 Degrees
	2.8742	2.8744	2.8743
54. Drive End Bearing Shaft Fit	0 Degrees	60 Degrees	120 Degrees
	3.1502	3.1503	3.1503
55. Drive End Bearing Shaft Fit Condition	(P) Pass		
56. Opposite Drive End Bearing Shaft Fit	0 Degrees	60 Degrees	120 Degrees
	2.7563	2.7563	2.7564
57. Opposite Drive End Bearing Shaft Fit Condition	(P) Pass		
58. Shaft Air Seal Fits	Drive End Air Seal	Opposite Drive End Air Seal	
<b>Mechanical Fits- Bearing Housings</b>			
59. Drive End - Endbell Bearing Fit	0 Degrees	60 Degrees	120 Degrees
	6.6935	6.6937	6.6935
60. Drive End - Endbell Bearing Fit Condition	(P) Pass		
61. Opposite Drive End - Endbell Bearing Fit	0 Degrees	60 Degrees	120 Degrees
	5.9057	5.9061	5.906
62. Opposite Drive End - Endbell Bearing Fit Condition	(P) Pass		
63. Bearing Cap Condition	Drive End Bearing Cap	Opposite Drive End Bearing Cap	
	pass	pass	
64. End Bell Air Seal Fits	Drive End Air Seal	Opposite Drive End Air Seal	
65. List Machine Work Needed Below	Remove 2 broken fan cover mount bolts from ode housing.		
66. Technician	Terrence Holland		
			
Co sign: CRW			
<b>Root Cause of Failure</b>			
67. Failure locations	Both bearings		

*Both bearings show signs of electrical frosting and contaminated grease. Also evidence of misalignment.*



*Frosting and misalignment*



### Dynamic Balance Report

69. Rotor Weight and Balance Grade

Rotor Weight

Balance Grade

70. Initial Balance Readings

Drive End

Opposite Drive End

71. Final Balance Readings

Drive End

Opposite Drive End

72. Technician

### Assembly

73. QC Check All Parts for Cleanliness Prior to Assembly

74. Photograph All Major Components prior to assembly

75. Final Insulation Resistance Test

76. Assembled Shaft Endplay

77. Assembled Shaft Runout

78. Test Run Voltage

Volts

Volts

Volts

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79.	Test Run Amperage		
	Amps	Amps	Amps
80.	Drive End Vibration Readings - Inches Per Second		
	Horizontal	Vertical	Axial
81.	Opposite Drive End Vibration Readings - Inches Per Second		
	Horizontal	Vertical	Axial
82.	Ambient Temperature - Fahrenheit		
83.	Drive End Bearing Temps - Fahrenheit		
	5 Minutes	10 Minutes	15 Minutes
84.	Opposite Drive End Bearing Temps - Fahrenheit		
	5 Minutes	10 Minutes	15 Minutes
85.	Document Final Condition with Pictures after paint		
86.	Final Pics and QC Review		