

LR Motor Shop Repairs

Job Number 100988

Prepared for Custom Craft Poultry

3064 E Main St Batesville AR 72501

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AC Recondition As Found - Shop

AC Recondition - Rev. 2: 6040 49587.1.2.3

1.0



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> FolderID: 100988 FormID: 16050515

AC Recondition As Found

Custom Craft Poultry

3064 E Main St Batesville, AR 72501

AC Recondition - Rev. 2

Location: Shop

Serial Number: 6040 49587.1.2.3

Description: JBT FOODTECH GEARMOTOR

Hi-Speed Job Number:	100988
Manufacturer:	SEW Eurodrive
Product Number:	DFV112M4
Serial Number:	6040 49587.1.2.3
RPM:	1800 (RPM)
Frame:	112M
Voltage:	460
Current:	7.5
Phase:	Three
Hz:	60 (Hz)
Enclosure:	TEFC
J-box Included:	Half
Coupling/Sheave:	None
Bearing RTDs:	No
Stator RTDs:	No
Repair Stage:	Final
Heaters:	No
Winding Type :	Random Wound
Bearing Type:	Rolling Element

Priorities Found: 1 - High



7 - Good

Overall Condition

1. Report Date

2. Nameplate Picture









(Yes) Yes

- 3. Photos of all six sides of the machine.
- 4. Describe the Overall Condition of the Equipment as Received

Initial Mechanical/Electrical

- 5. Does Shaft Turn Freely?
 - 6. Does Shaft Have Visible Damage?
 - 7. Assembled Shaft Runout
 - 8. Assembled Shaft End Play
 - 9. Air Gap Variation <10%





11.	Lead Length	6 Inches
12.	Frame Condition	pas
13.	Fan Condition	(P) Pass



14	. Broken or Missing Components			
	Il Electrical Inspection			
15	. Insulation Resistance/Megger			
16	. Winding Resistance			
	1-2	1-3	2-3	
17	. Perform Surge Test			(F) Fail
18	. Number of Stator Slots			36 Megohms

19. Stator Condition rewind





Mechanical Inspection20. Drive End Bearing BrandNTN21. Drive End Bearing Number-6307 2RS



22. Drive End Bearing Qty.	1
23. Drive End Bearing Type	(Ball) Ball Bearing
24. Drive End Lubrication Type	(Grease) Grease Lubricated
25. Drive End Bearing Insulation or Grounding Device?	na
26. Drive End Wavy Washer/Snap-Ring Other Retention Device?	snap ring



27. Drive End Bearing Condition



28. Opposite Drive End Bearing Brand	NTN
29. Opposite Drive End Bearing Number-	6207 2RS
30. Opposite Drive End Bearing Qty.	1
31. Opposite Drive End Bearing Type	(Ball) Ball Bearing
32. Opposite Drive End Lubrication Type	(Grease) Grease Lubricated
33. Opposite Drive End Bearing Insulation or Grounding Device?	na
34. Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?	wavy washer
35. Opposite Drive End Bearing Condition	



36. Drive End Seal yes. 35 52 7



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37.	Opposite Drive End Seal			
Rotor	Rotor Inspection			
38.	Rotor Type/Material	(Squirrel Aluminum) Squirrel Cage Aluminum Die Cast		
39.	Growler Test	(Pass) Pass		
40.	Number of Rotor Bars			
41.	Rotor Condition	wash		



42.	List the Parts needed for the Repair B	elow	
43.	Signature of Technician that Disassembled Motor		
Mech	anical Fits- Rotor		
44.	Shaft Runout		
45.	Rotor Runout		
	Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing
46.	Coupling Fit Closest to Bearing Housi	ng	
	0 Degrees	90 Degrees	120 Degrees
47.	Coupling Fit Closest to the end of the		
	0 Degrees	60 Degrees	120 Degrees
40	Daire Ford Description Objett Fit		
48.	Drive End Bearing Shaft Fit	00.5	100 5
	0 Degrees	60 Degrees	120 Degrees
	Drive End Bearing Shaft Fit Condition		(P) Pass
50.	•		(1)1 433
30.	0 Degrees	60 Degrees	120 Degrees
	0 Degrees	ou Degrees	120 Deglees
5 1.	Opposite Drive End Bearing Shaft Fit	Condition	(P) Pass
	Shaft Air Seal Fits		. ,
	Drive End Air Seal	Opposite Drive End Air Seal	
Mechanical Fits- Bearing Housings			
53.	Drive End - Endbell Bearing Fit		
	0 Degrees	60 Degrees	120 Degrees



	0 Degrees	60 Degrees	120 Degrees	
5 6.	56. Opposite Drive End - Endbell Bearing Fit Condition			(P) Pass



57.	Bearing Cap Condition		
	Drive End Bearing Cap	Opposite Drive End Bearing Cap	
58.	End Bell Air Seal Fits		
	Drive End Air Seal	Opposite Drive End Air Seal	
59.	List Machine Work Needed Below		
60.	Technician	RW	
	_		

Dynamic Balance Report

61. Rotor Weight and Balance Grade

Rotor Weight Balance Grade

62. Initial Balance Readings			
Drive End Opposite Drive End			
63. Final Balance Readings			
Drive End Opposite Drive End			
64. Technician			
Rewind			
65. Core Test Results - Watts loss per Pound			
Pre-Burnout Post Burnout			
66. Core Hot Spot Test			
Pre-Burnout Post-Burnout			
67. Post Rewind Electrical Test- Insulation Resistance			
68. Post Rewind Polarization Index			
69. Post Rewind Winding Resistance			
1-2 1-3 2-3			
70. Post Rewind Surge Test			
71. Post Rewind Hi-Pot			
72. Technician			
Root Cause of Failure			
73. Failure locations			
74. Root cause of failure			
Mechanical Fits- Rotor - Post Repair			
75. Shaft Runout Post Repair			
76. Rotor Runout Post Repair			
Drive End Bearing Fit Rotor Body Opposite Drive End Bearing	a		
The End Bearing Fit Rotor Body Opposite Brive End Bearing	9		
77. Coupling Fit Closest to Bearing Housing Post Repair			
0 Degrees 90 Degrees 120 Degrees			
78. Coupling Fit Closest to the end of the Shaft Post Repair			
0 Degrees 60 Degrees 120 Degrees			
79. Drive End Bearing Shaft Fit Post Repair			
0 Degrees 60 Degrees 120 Degrees			
80. Opposite Drive End Bearing Shaft Fit Post Repair			
0 Degrees 60 Degrees 120 Degrees			
81. Shaft Air Seal Fits Post Repair			
Drive End Air Seal Opposite Drive End Air Seal			
82. Shaft Repair Sign-off			
Mechanical Fits- Bearing Housings - Post Repair			

83.	Drive End - Endbell Bearing Fit Post F	Repair	
	0 Degrees	60 Degrees	120 Degrees
	-		-
84.	34. Opposite Drive End - Endbell Bearing Fit Post Repair		
	0 Degrees	60 Degrees	120 Degrees
85.	Bearing Cap Condition Post Repair		
	Drive End Bearing Cap	Opposite Drive End Bearing Cap	
86.	End Bell Air Seal Fits Post Repair		
	Drive End Air Seal	Opposite Drive End Air Seal	
87.	End Bell Repair Sign-off		
Assen	nbly		
88.	Photograph All Major Components pri	or to assembly	
89.	Final Insulation Resistance Test		
	Assembled Shaft Endplay		
91.	Assembled Shaft Runout		
92.	Test Run Voltage		
	Volts	Volts	Volts
03	Test Run Amperage		
95.	Amps	Amps	Amps
	Allips	Λιτίρο	Λιτίρο
94.	Drive End Vibration Readings - Inches	s Per Second	
	Horizontal	Vertical	Axial
95.	Opposite Drive End Vibration Reading	gs - Inches Per Second	
	Horizontal	Vertical	Axial
06	Ambient Temperature - Fahrenheit		
	Drive End Bearing Temps - Fahrenhei	it	
97.	5 Minutes	10 Minutes	15 Minutes
	5 Millutes	10 Millutes	15 Millutes
98.	Opposite Drive End Bearing Temps -	Fahrenheit	
	5 Minutes	10 Minutes	15 Minutes
	Final Test Run Sign-off		
	Document Final Condition with Picture	es after paint	
101.	Final Pics and QC Review		

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