

# EVERY DAY SINCE 1946

LR Motor Shop Repairs

## Job Number 101031

Prepared for Custom Craft Poultry

3064 E Main St Batesville AR 72501

## Table of Contents

AC Recondition As Found - Shop

1.0 2.0



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

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#### **AC Recondition As Found**

Custom Craft Poultry 3064 E Main St Batesville, AR 72501

#### AC Recondition - Rev. 2

Location:	Shop
Serial Number:	6040 63193.2.2.2

Description:2.2KW SEW EURODRIVE 900RPM 132S

Hi-Speed Job Number:	101031
Manufacturer:	SEW Eurodrive
Product Number:	DFV132S8
Serial Number:	6040 63193.2.2.2
HP/kW:	2.2 (kW)
RPM:	700 (RPM)
Frame:	132S
Voltage:	208-230/460
Current:	12.6/7.3
Phase:	Three
Hz:	60 (Hz)
Enclosure:	TEFC
J-box Included:	Complete
Coupling/Sheave:	None
Bearing RTDs:	No
Stator RTDs:	No
Repair Stage:	Final
Heaters:	No
Winding Type :	Random Wound
Bearing Type:	Rolling Element

#### Priorities Found: **7 - Good**

- **Overall Condition** 
  - 1. Report Date
    - 2. Nameplate Picture

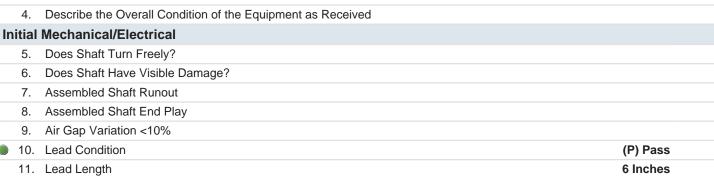


3. Photos of all six sides of the machine.















• 10.				(1)1 435
14.	Broken or Missing Components			
Initial	Electrical Inspection			
	Insulation Resistance/Megger			2166 Megohms
16.	Winding Resistance			
	1-2	1-3	2-3	
	4.452	4.458	4.455	
17.	Perform Surge Test			(P) Pass



12. Frame Condition

13. Fan Condition



18. Number of Stator Slots

Megohms

wash and bake

(P) Pass

#### 19. Stator Condition

#### wash and bake







#### **Mechanical Inspection**

- 20. Drive End Bearing Brand
- 21. Drive End Bearing Number-





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

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FAG

6307

- 27. Drive End Bearing Condition
- 28. Opposite Drive End Bearing Brand
- 29. Opposite Drive End Bearing Number-



6207





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	35 52 7



37. Opposite Drive End Seal	na
Rotor Inspection	

#### 38. Rotor Type/Material



39.	Growler Test		(Pass) Pass	S
40.	Number of Rotor Bars			
41.	Rotor Condition		Pass	5
42.	List the Parts needed for the Repair B	elow		
	De Shaft seal surface needs repaired			
43.	Signature of Technician that Disasser	nbled Motor	RW	/
	Q(			
Mecha	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 and of the	Shott		
47.	Coupling Fit Closest to the end of the			
	0 Degrees	60 Degrees	120 Degrees	
48.	Drive End Bearing Shaft Fit			
	0 Degrees	60 Degrees	120 Degrees	
	0 2 0 9 1 0 0 0	00 203.000	120 209.000	
<b>4</b> 9.	Drive End Bearing Shaft Fit Condition		(P) Pass	S
50.	Opposite Drive End Bearing Shaft Fit			
	0 Degrees	60 Degrees	120 Degrees	
	Opposite Drive End Bearing Shaft Fit	Condition	(P) Pass	S
52.	Shaft Air Seal Fits			
	Drive End Air Seal	Opposite Drive End Air Seal		
Mecha	anical Fits- Bearing Housings			

#### **Mechanical Fits- Bearing Housings**

	53.	Drive End - Endbell Bearing Fit			
		0 Degrees	60 Degrees	120 Degrees	
۲		Drive End - Endbell Bearing Fit Condi		(P) Pass	
	55.	Opposite Drive End - Endbell Bearing	Fit		
		0 Degrees	60 Degrees	120 Degrees	
	50		Fit Os a dition		
	56.	11 5	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			
		De Shaft seal surface needs repaired			
	60.	Technician		RW	
		/	2N		
		1	$\angle \setminus   \setminus  $		
		4			
D	vnar	nic Balance Report			
	-	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	Taskaisian			
D	64. <b>ewin</b>	Technician			
R					
	65.	Core Test Results - Watts loss per Po Pre-Burnout	Post Burnout		
		Ple-Bulliout	Post Burnout		
	66.	Core Hot Spot Test			
		Pre-Burnout	Post-Burnout		
	67.	Post Rewind Electrical Test- Insulatio	n 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			
-		Technician			
R	oot (	Cause of Failure			

73.	Failure locations		
74.	Root cause of failure		
Mecha	anical Fits- Rotor - Post Repair		
75.	Shaft Runout Post Repair		
76.	Rotor Runout Post Repair		
	Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing
77.	Coupling Fit Closest to Bearing Housi	•	
	0 Degrees	90 Degrees	120 Degrees
78	Coupling Fit Closest to the end of the	Shaft Post Penair	
70.	0 Degrees	60 Degrees	120 Degrees
	0 Degrees	ob Degrees	120 Degrees
79.	Drive End Bearing Shaft Fit Post Repa	air	
	0 Degrees	60 Degrees	120 Degrees
	C C	<u> </u>	5
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		
	anical Fits- Bearing Housings - P	ost Renair	
	Drive End - Endbell Bearing Fit Post F	-	
	0 Degrees	60 Degrees	120 Degrees
	0 209,000	00 209,000	120 2091000
84.	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		
00.	Drive End Air Seal	Opposite Drive End Air Seal	
	Drive Erid Ali Seal	Opposite Drive End All Seal	
87.	End Bell Repair Sign-off		
Asser	nbly		
88.	•	or to assembly	
89.	Final Insulation Resistance Test		
90.	Assembled Shaft Endplay		
91.	Assembled Shaft Runout		
92.	Test Run Voltage		
	Volts	Volts	Volts
93.	Test Run Amperage		
	Amps	Amps	Amps

94.	Drive End Vibration Readings - Inches	Per Second	
	Horizontal	Vertical	Axial
95.	Opposite Drive End Vibration Reading	s - Inches Per Second	
	Horizontal	Vertical	Axial
96.	Ambient Temperature - Fahrenheit		
97.	Drive End Bearing Temps - Fahrenhei	t	
	5 Minutes	10 Minutes	15 Minutes
98.	Opposite Drive End Bearing Temps -	Fahrenheit	
	5 Minutes	10 Minutes	15 Minutes
99.	QC Check All Parts for Cleanliness Pr	ior to Assembly	
100.	Document Final Condition with Picture	es after paint	
101.	Final Pics and QC Review		



FolderID: 101031 FormID: 16112337

### **Gearbox Repair Report**

**Custom Craft Poultry** 3064 E Main St Batesville, AR 72501

Priorities Found:

Priorities	s Found:
Gener	ral
1.	Job Number
2.	Customer
3.	Report Date
Name	plate Information
4.	Manufacturer
5.	Horsepower
6.	Serial #
7.	Model #
8.	Input Speed
9.	Output Speed
10.	Ratio
11.	Туре
12.	Coupling Type
13.	Gearbox Application
Initial	Evaluation
14.	Oil Wear
15.	Oil Physical
16.	Oil Contaminants
17.	Gear Wear
18.	Physical Gear Condition
19.	Gear Contamination
20.	Bearing Wear
21.	Bearing Physical Condition
22.	Bearing Contamination
23.	Seal Wear
	Seal Physical Condition
	Seal Contamination
26.	Environmental Conditions
	Signs of excessive heat
	Signs of lubricant leaks
	Moisture Present
	Ambient Temperature
	Humidity
32.	Gearbox Temperature
33.	
34.	Condition of machinery guards

<ul> <li>36. Typ</li> <li>37. Cor</li> <li>38. Cou</li> <li>39. Cor</li> <li>40. Cor</li> <li>41. Bre</li> <li>42. Cor</li> <li>43. Cor</li> <li>44. Cor</li> <li>45. Cor</li> <li>46. Gea</li> <li>47. Gea</li> <li>48. Cor</li> </ul>	ondition of coupling guards ype of coupler condition of coupler coupling Alignment condition of housing condition of mounting hardware reather Vent Installed condition of oil piping and connections condition of switches, alarms, heaters, coolers, or other devices
37.         Cor           38.         Cou           39.         Cor           40.         Cor           41.         Bre           42.         Cor           43.         Cor           44.         Cor           45.         Cor           46.         Gea           47.         Gea           48.         Cor	iondition of coupler ioupling Alignment iondition of housing iondition of mounting hardware reather Vent Installed iondition of oil piping and connections
38.         Cou           39.         Cor           40.         Cor           41.         Bre           42.         Cor           43.         Cor           44.         Cor           45.         Cor           46.         Gea           47.         Gea           48.         Cor	oupling Alignment condition of housing condition of mounting hardware reather Vent Installed condition of oil piping and connections
<ul> <li>39. Cor</li> <li>40. Cor</li> <li>41. Bre</li> <li>42. Cor</li> <li>43. Cor</li> <li>44. Cor</li> <li>45. Cor</li> <li>46. Gea</li> <li>47. Gea</li> <li>48. Cor</li> </ul>	iondition of housing iondition of mounting hardware reather Vent Installed iondition of oil piping and connections
<ul> <li>40. Cor</li> <li>41. Bre</li> <li>42. Cor</li> <li>43. Cor</li> <li>44. Cor</li> <li>45. Cor</li> <li>46. Gea</li> <li>47. Gea</li> <li>48. Cor</li> </ul>	reather Vent Installed rondition of oil piping and connections
<ul> <li>41. Bre</li> <li>42. Cor</li> <li>43. Cor</li> <li>44. Cor</li> <li>45. Cor</li> <li>46. Gea</li> <li>47. Gea</li> <li>48. Cor</li> </ul>	reather Vent Installed rondition of oil piping and connections
42. Cor 43. Cor 44. Cor 45. Cor 46. Gea 47. Gea 48. Cor	ondition of oil piping and connections
<ul> <li>43. Cor</li> <li>44. Cor</li> <li>45. Cor</li> <li>46. Gea</li> <li>47. Gea</li> <li>48. Cor</li> </ul>	
<ul> <li>44. Cor</li> <li>45. Cor</li> <li>46. Gea</li> <li>47. Gea</li> <li>48. Cor</li> </ul>	ondition of switches, alarms, heaters, coolers, or other devices
45. Cor 46. Gea 47. Gea 48. Cor	
46. Gea 47. Gea 48. Cor	ondition of inspection covers
47. Gea 48. Cor	ondition of seals and bearings
48. Cor	iearbox Oil Level
	earbox oil type and grade
49. App	orrect type and grade of oil
	ppearance of lubricant
50. Sha	haft rotate freely
51. Cor	ondition of input shaft
52. End	ndplay of input shaft
53. End	ndplay of output shaft
54. Cor	ondition of output shaft
55. Gea	ear backlash set correctly
56. Gea	ear tooth condition
57. Deg	egree of wear
58. Gea	ear tooth contact
59. Typ	ype of gear tooth contact
Comment	nts
60. Gea	iearbox Comments
61. Ser	earbox Comments



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- 8. WARRANTIES. Hi-Speed warrants that all goods shall conform in all material aspects to the goods identified in the quotation to Buyer and/or purchase order, and Hi-Speed makes to Buyer the manufacturer's express warranty for any goods sold to Buyer, which is offered by the manufacturer at the time of acceptance of any quotation by Buyer. This warranty is conditioned upon the installation, operation, and maintenance of the goods in accordance with the manufacturer's recommendations and/or standard industry practice and the goods at all times being operated or used under normal operating conditions for which they were designed. Hi-Speed, at its sole option, will repair or

**TermsAndConditions** 

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- 10. <u>SEVERABILITY</u>. The partial or complete invalidity of any provision of these Standard Terms and Conditions shall not affect the enforceability of the remainder of these Standard Terms and Conditions. If any provision is found to be invalid or unenforceable, that portion shall be modified to make it enforceable or shall be stricken and the remainder of these Standard Terms and Conditions shall enforced.
- 11. <u>GOVERNING LAW AND JURISDICTION.</u> Any controversy arising out of any quotation, the purchase order, the goods sold or delivered, repair or replacement thereof, or any services provided pursuant to any quotation or any purchase order, or these Standard Terms and Conditions shall be governed by the laws of the state of Tennessee without regard to any choice of law provisions and any cause of action related in any manner thereto shall be brought only in the state or federal courts of Shelby County, Tennessee.
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- 13. FORCE MAJEURE. Neither party shall be responsible for any delay or failure in performance of any party of the quotation, purchase order or these Standard Terms and Conditions to the extent that such delays or failures are caused by fire, flood, earth quake, explosion, war, embargo, government requirement, civil or military authority, acts of God, or any other circumstances beyond its reasonable control and not involving any fault or negligence on the party affected ("Condition"). If any such Condition occurs, the party delayed or unable to perform shall promptly give written notice to the other party and, if such Condition remains at the end of thirty (30) days, the party affected by the other party's delay and inability to perform may elect to (i) terminate such order or part thereof, or (ii) suspend the order for the duration of the Condition, if the Buyer is the suspending party, buy elsewhere comparable material to be sold under the order and apply to any commitment the purchase price of such purchase, and resume performance of the order once the Condition ceases, with an option in the affected party to extend the period of this order up to the length of the time the Condition endures.
- 14. <u>NONWAIVER</u>. No course of dealing or failure of either party to strictly enforce any term, right, or condition of these Standard Terms and Conditions will be construed as a waiver of such term, right or condition. Any waiver by Hi-Speed will only be in writing and will waive no succeeding breach of a term, right or condition.
- 15. <u>ASSIGNMENT.</u> The rights and obligations of the parties shall neither be assigned nor delegated without the prior written consent of the other party. However, any party may assign or delegate its respective rights and obligations, in whole or in part, (i) to any subsidiary, (ii) pursuant to other financing, merger or reorganization or (iii) pursuant to any sale or transfer of substantially all of the assets of the assigning party. These Standard Terms and Conditions shall bind the heirs, successors and assigns of the parties hereto.
- 16. <u>NO INDIVIDUAL LIABILITY</u>. Notwithstanding any other agreement to the contrary, the Buyer agrees that in no event will the Buyer hold and HI-Speed owner, director, officer or employee personally liable for unintentional tortious conduct or conduct that constitutes the breach of any contract between HI-Speed and the Buyer, even if the HI-Speed owner, director, officer or employee is or could be construed to be a party to such contract.