

EVERY DAY SINCE 1946

LR Motor Shop Repairs

Job Number 101032

Prepared for Custom Craft Poultry

3064 E Main St Batesville AR 72501

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AC Recondition As Found - Shop

1.0 2.0



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

> FolderID: 101032 FormID: 16112477

AC Recondition As Found

Custom Craft Poultry 3064 E Main St Batesville, AR 72501

AC Recondition - Rev. 2

Location:	Shop
Serial Number:	6040 60508.1.1.2

Description:1.1KW SEW EURODRIVE 900RPM 100L

Hi-Speed Job Number:	101032
Manufacturer:	SEW Eurodrive
Product Number:	DFT100L8
Serial Number:	6040 60508.1.1.2
HP/kW:	1.1 (kW)
RPM:	670 (RPM)
Frame:	100L
Voltage:	230 / 460
Current:	6.0/3.45
Phase:	Three
Hz:	50 (Hz)
Enclosure:	TEFC
J-box Included:	Complete
Bearing RTDs:	No
Stator RTDs:	No
Repair Stage:	Final
Heaters:	No
Winding Type :	Random Wound
Bearing Type:	Rolling Element

Priorities Found: **8 - Good**

Overall Condition

- 1. Report Date
- 2. Nameplate Picture



3. Photos of all six sides of the machine.









	4.	Describe the Overall Condition of the Equipment as Received	
	5. Distance from the end of the shaft to the Coupling/Sheave		
In	Initial Mechanical/Electrical		
	6.	Does Shaft Turn Freely? (Yes) Yes	
	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	



13. Frame Condition

14. Fan Condition



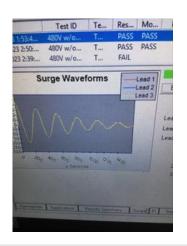
15.	Broken or Missing Components			
Initial	Initial Electrical Inspection			
16.	Insulation Resistance/Megger			5566 Megohms
17.	Winding Resistance			
	1-2	1-3	2-3	
	13.67	13.28	13.64	

(P) Pass

18. Perform Surge Test



- Number of Stator Slots 19.
- Stator Condition 20.





wash and bake



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

1 (Ball) Ball Bearing (Grease) Grease Lubricated

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6306 2RS

26	b. Drive End Bearing Insulation or Grounding Device?	na
27	7. Drive End Wavy Washer/Snap-Ring Other Retention Device?	snap ring
28	B. Drive End Bearing Condition	
29	. Opposite Drive End Bearing Brand	KBC

30. Opposite Drive End Bearing Number-





6205 2RS

31. Opposite Drive End Bearing Qty.	1
32. Opposite Drive End Bearing Type	(Ball) Ball Bearing
33. Opposite Drive End Lubrication Type	(Grease) Grease Lubricated
34. Opposite Drive End Bearing Insulation or Grounding Device?	na
35. Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?	wavy washer
36. Opposite Drive End Bearing Condition	
37. Drive End Seal	30 47 7



38. Opposite Drive End Seal	na
Rotor Inspection	

(Squirrel Aluminum) Squirrel Cage Aluminum Die Cast

39. Rotor Type/Material



	40.	Growler Test		(Pass) Pass
	41.	Number of Rotor Bars		
	42.	Rotor Condition		wash
	43.	List the Parts needed for the Repair B	elow	
	44.	Signature of Technician that Disassem	nbled Motor	RW
Μ	echa	anical 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	ng	
		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		(P) Pass
	51.	Opposite Drive End Bearing Shaft Fit		
		0 Degrees	60 Degrees	120 Degrees
	52.	Opposite Drive End Bearing Shaft Fit	Condition	(P) Pass
	53.	Shaft Air Seal Fits		
		Drive End Air Seal	Opposite Drive End Air Seal	

Μ	Mechanical Fits- Bearing Housings				
	54.	Drive End - Endbell Bearing Fit			
		0 Degrees	60 Degrees	120 Degrees	
	55.	Drive End - Endbell Bearing Fit Condi		(P) P	ass
	56.	Opposite Drive End - Endbell Bearing	Fit		
		0 Degrees	60 Degrees	120 Degrees	
	57.	11 0	Fit Condition	(P) P	ass
	58.	Bearing Cap Condition			
		Drive End Bearing Cap	Opposite Drive End Bearing Cap		
	59	End Bell Air Seal Fits			
	00.	Drive End Air Seal	Opposite Drive End Air Seal		
		Drive Life All Geal	Opposite Drive End All Geal		
	60.	List Machine Work Needed Below			
		Drive end shaft seal surface needs repa	ired		
	61.	Technician			RW
	r	~			
	() 1			
		()			
	r				
D	whar	nic Balance Report			
	ynai				
	62	Potor Woight and Balanco Grado			
	62.	Rotor Weight and Balance Grade	Poloneo Crado		
	62.	Rotor Weight and Balance Grade Rotor Weight	Balance Grade		
		Rotor Weight	Balance Grade		
		Rotor Weight Initial Balance Readings			
		Rotor Weight	Balance Grade Opposite Drive End		
	63.	Rotor Weight Initial Balance Readings			
	63.	Rotor Weight Initial Balance Readings Drive End			
	63. 64.	Rotor Weight Initial Balance Readings Drive End Final Balance Readings Drive End	Opposite Drive End		
	63. 64. 65.	Rotor Weight Initial Balance Readings Drive End Final Balance Readings Drive End Technician	Opposite Drive End		
R	63. 64. 65. ewir	Rotor Weight Initial Balance Readings Drive End Final Balance Readings Drive End Technician	Opposite Drive End Opposite Drive End		
R	63. 64. 65. ewir	Rotor Weight Initial Balance Readings Drive End Final Balance Readings Drive End Technician d Core Test Results - Watts loss per Po	Opposite Drive End Opposite Drive End		
R	63. 64. 65. ewir	Rotor Weight Initial Balance Readings Drive End Final Balance Readings Drive End Technician	Opposite Drive End Opposite Drive End		
R	63. 64. 65. ewir 66.	Rotor Weight Initial Balance Readings Drive End Final Balance Readings Drive End Technician d Core Test Results - Watts loss per Po Pre-Burnout	Opposite Drive End Opposite Drive End		
R	63. 64. 65. ewir 66.	Rotor Weight Initial Balance Readings Drive End Final Balance Readings Drive End Technician Core Test Results - Watts loss per Por Pre-Burnout Core Hot Spot Test	Opposite Drive End Opposite Drive End und Post Burnout		
R	63. 64. 65. ewir 66.	Rotor Weight Initial Balance Readings Drive End Final Balance Readings Drive End Technician d Core Test Results - Watts loss per Po Pre-Burnout	Opposite Drive End Opposite Drive End		
R	63. 64. 65. ewir 66. 67.	Rotor Weight Initial Balance Readings Drive End Final Balance Readings Drive End Technician Core Test Results - Watts loss per Po Pre-Burnout Core Hot Spot Test Pre-Burnout	Opposite Drive End Opposite Drive End und Post Burnout Post-Burnout		
R	 63. 64. 65. 66. 67. 68. 	Rotor Weight Initial Balance Readings Drive End Final Balance Readings Drive End Technician Core Test Results - Watts loss per Por Pre-Burnout Core Hot Spot Test Pre-Burnout Post Rewind Electrical Test- Insulation	Opposite Drive End Opposite Drive End und Post Burnout Post-Burnout		
R	 63. 64. 65. 66. 67. 68. 69. 	Rotor Weight Initial Balance Readings Drive End Final Balance Readings Drive End Technician d Core Test Results - Watts loss per Po Pre-Burnout Core Hot Spot Test Pre-Burnout Post Rewind Electrical Test- Insulation Post Rewind Polarization Index	Opposite Drive End Opposite Drive End und Post Burnout Post-Burnout		
R	 63. 64. 65. 66. 67. 68. 69. 	Rotor Weight Initial Balance Readings Drive End Final Balance Readings Drive End Technician Core Test Results - Watts loss per Po Pre-Burnout Core Hot Spot Test Pre-Burnout Post Rewind Electrical Test- Insulation Post Rewind Polarization Index Post Rewind Winding Resistance	Opposite Drive End Opposite Drive End und Post Burnout Post-Burnout n Resistance	2.2	
R	 63. 64. 65. 66. 67. 68. 69. 	Rotor Weight Initial Balance Readings Drive End Final Balance Readings Drive End Technician d Core Test Results - Watts loss per Po Pre-Burnout Core Hot Spot Test Pre-Burnout Post Rewind Electrical Test- Insulation Post Rewind Polarization Index	Opposite Drive End Opposite Drive End und Post Burnout Post-Burnout	2-3	
R	 63. 64. 65. 66. 67. 68. 69. 70. 	Rotor Weight Initial Balance Readings Drive End Final Balance Readings Drive End Technician d Core Test Results - Watts loss per Po Pre-Burnout Core Hot Spot Test Pre-Burnout Post Rewind Electrical Test- Insulation Post Rewind Polarization Index Post Rewind Winding Resistance 1-2	Opposite Drive End Opposite Drive End und Post Burnout Post-Burnout n Resistance	2-3	
R	 63. 64. 65. 66. 67. 68. 69. 70. 	Rotor Weight Initial Balance Readings Drive End Final Balance Readings Drive End Technician Core Test Results - Watts loss per Po Pre-Burnout Core Hot Spot Test Pre-Burnout Post Rewind Electrical Test- Insulation Post Rewind Polarization Index Post Rewind Winding Resistance	Opposite Drive End Opposite Drive End und Post Burnout Post-Burnout n Resistance	2-3	

Deet	Cause of Eailure		
	Cause of Failure		
	Failure locations		
	Root cause of failure		
	anical Fits- Rotor - Post Repair		
	Shaft Runout Post Repair		
77.	Rotor Runout Post Repair		
	Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing
70	Coupling Fit Closest to Bearing Hous	ing Post Poppir	
70.	0 Degrees	90 Degrees	120 Degrees
	0 Degrees	SU Deglees	120 Degrees
79.	Coupling Fit Closest to the end of the	e Shaft Post Repair	
	0 Degrees	60 Degrees	120 Degrees
	-		
80.	Drive End Bearing Shaft Fit Post Rep	pair	
	0 Degrees	60 Degrees	120 Degrees
81.	Opposite Drive End Bearing Shaft Fit		
	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		
Mecha	anical Fits- Bearing Housings - F	Post Repair	
84.	Drive End - Endbell Bearing Fit Post	Repair	
	0 Degrees	60 Degrees	120 Degrees
85.	Opposite Drive End - Endbell Bearing	· ·	
	0 Degrees	60 Degrees	120 Degrees
99	Bearing Cap Condition Post Repair		
00.		Opposite Drive End Peoring Con	
	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		
Asser	-		
89.		ior to assembly	
90.	Final Insulation Resistance Test		
	Assembled Shaft Endplay		
92.	Assembled Shaft Runout		

93.	Test Run Voltage		
	Volts	Volts	Volts
	458	458	456
6/8 900 0 45 0 0 20 0 20 0 0 0	8.00 (6.16)		

94.	Test Run Amperage		
	Amps	Amps	Amps
	2.1	2.2	2.3
			-



U.

95.	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 - Fahrenhei	t		
	5 Minutes	10 Minutes	15 Minutes	
99.	Opposite Drive End Bearing Temps - Fahrenheit			
	5 Minutes	10 Minutes	15 Minutes	
100.	QC Check All Parts for Cleanliness Pr	ior to Assembly		
101.	Document Final Condition with Picture	es after paint		
102.	Final Pics and QC Review			







FolderID: 101032 FormID: 16112478

Gearbox Repair Report

Custom Craft Poultry 3064 E Main St Batesville, AR 72501

Priorities Found:

Phonues	s Found:
Gene	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
24.	Seal Physical Condition
25.	Seal Contamination
26.	Environmental Conditions
27.	Signs of excessive heat
28.	Signs of lubricant leaks
	Moisture Present
30.	Ambient Temperature
31.	Humidity
32.	•
	Primary Drive rotated input shaft in correct direction
34.	Condition of machinery guards

 35. Condition of coupling guards 36. Type of coupler 37. Condition of coupler 38. Coupling Alignment 39. Condition of housing 40. Condition of mounting hardware 41. Breather Vent Installed 42. Condition of oil piping and connect 43. Condition of switches, alarms, heat 44. Condition of switches, alarms, heat 45. Condition of seals and bearings 46. Gearbox Oil Level 47. Gearbox oil type and grade 48. Correct type and grade of oil 49. Appearance of lubricant 50. Shaft rotate freely 51. Condition of input shaft 52. Endplay of input shaft 	
 37. Condition of coupler 38. Coupling Alignment 39. Condition of housing 40. Condition of mounting hardware 41. Breather Vent Installed 42. Condition of oil piping and connect 43. Condition of switches, alarms, heat 44. Condition of inspection covers 45. Condition of seals and bearings 46. Gearbox Oil Level 47. Gearbox oil type and grade 48. Correct type and grade of oil 49. Appearance of lubricant 50. Shaft rotate freely 51. Condition of input shaft 	
 38. Coupling Alignment 39. Condition of housing 40. Condition of mounting hardware 41. Breather Vent Installed 42. Condition of oil piping and connect 43. Condition of switches, alarms, heat 44. Condition of inspection covers 45. Condition of seals and bearings 46. Gearbox Oil Level 47. Gearbox oil type and grade 48. Correct type and grade of oil 49. Appearance of lubricant 50. Shaft rotate freely 51. Condition of input shaft 	
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 44. Condition of inspection covers 45. Condition of seals and bearings 46. Gearbox Oil Level 47. Gearbox oil type and grade 48. Correct type and grade of oil 49. Appearance of lubricant 50. Shaft rotate freely 51. Condition of input shaft 	aters, coolers, or other devices
 45. Condition of seals and bearings 46. Gearbox Oil Level 47. Gearbox oil type and grade 48. Correct type and grade of oil 49. Appearance of lubricant 50. Shaft rotate freely 51. Condition of input shaft 	
 46. Gearbox Oil Level 47. Gearbox oil type and grade 48. Correct type and grade of oil 49. Appearance of lubricant 50. Shaft rotate freely 51. Condition of input shaft 	
 47. Gearbox oil type and grade 48. Correct type and grade of oil 49. Appearance of lubricant 50. Shaft rotate freely 51. Condition of input shaft 	
48. Correct type and grade of oil49. Appearance of lubricant50. Shaft rotate freely51. Condition of input shaft	
49. Appearance of lubricant50. Shaft rotate freely51. Condition of input shaft	
50. Shaft rotate freely51. Condition of input shaft	
51. Condition of input shaft	
52. Endplay of input shaft	
53. Endplay of output shaft	
54. Condition of output shaft	
55. Gear backlash set correctly	
56. Gear tooth condition	
57. Degree of wear	
58. Gear tooth contact	
59. Type of gear tooth contact	
Comments	
60. Gearbox Comments	
61. Service Technician	



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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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- 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.
- 12. <u>ABANDONED EQUIPMENT.</u> Hi-Speed requires that Buyer promptly pick up or provide shipment instructions for Buyer equipment or other Buyer property in Hi-Speed's possession. If equipment or other Buyer property is left with Hi-Speed and not picked up within six (6) months after Hi-Speed's final action related to the applicable property (e.g. evaluation, teardown, estimate, completion of services), Hi-Speed will consider such property abandoned and may dispose of it in accordance with applicable law. Buyer agrees to hold Hi-Speed harmless for any damage or claim for such abandoned property and acknowledges that Hi-Speed may discard or recycle it at Hi-Speed's sole and absolute discretion. Specifically, Hi-Speed may sell Buyer's abandoned property at a private or public sale and retain the proceeds to offset Hi-Speed's storage, inspection and servicing costs. For the avoidance of doubt, Hi-Speed reserves its statutory and other lawful liens for unpaid charges related to abandoned property.
- 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.