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# **Motor Shop Repairs**

# Job Number 97906

Prepared for ConAgra (10859-CON)

3100 E. Main St. Russellville AR 72801

### **Table of Contents**



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FolderID: 97906

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### **AC Recondition Repair Report**

ConAgra (10859-CON)

3100 E. Main St. Russellville, AR 72801

General

Priorities Found: **10 - High** 

11 - Good

1. Job Number

2. Report Date

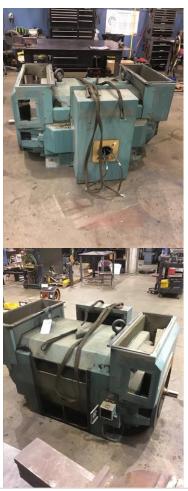
3/1/2021

Customer **CONAGRA FOODS** 

#### **Name Plate Information**

**RAM** 





5.	Model	W2000066911	
6.	Serial Number		
7.	Horsepower	957	
8.	KW		
9.	Volts	4000	

10	Amps	122
	•	·
11.	RPM	3585
12.	Frame	5810
13.	Enclosure	ODP
14.	Cycles	60
15.	Phase	3
16.	Service Factor	1.15
17.	Motor Mount Position	f2
Initial	Inspection	
18.	Number of Leads	3
19.	Lead Length	36 Inches
20.	Lead Size	1
<b>2</b> 1.	Lead Condition	(P) Pass



22.	Lead Markings	1 2 3
23.	Lug Size, Condition, and Type	
	#2 copper	
24.	Winding RTD's	
25.	Winding Rtd's Condition	
26.	Shaft Run Out	0.001
27.	Does Shaft Turn Freely	yes
28.	Does Shaft Have Visible Damage	no



29. Bearing Rtd's

#### 30. Bearing Rtd's Condition

#### 31. Contamination

Full of grease and dirt





32. Frame Condition

Foot is broken





(F) Fail





33. Fan Condition(P) Pass



34. Broken or missing components

	Foot broken off frame	
Initial	Electric Test	
35.	Resistance to Ground	
36.	Winding Resistance 1-2	
37.	Winding Resistance 2-3	
38.	Winding Resistance 1-3	
39.	Resistive Imbalance	
40.	Hi-Pot	
<b>4</b> 1.	Surge Test	(F) Fail
42.	Stator Condition	rewind

43. Failure Location in slot





**Initial Rotor Inspection** 

44. Rotor Type copper bar



N. C.	
45. Air Gap <10% Variation	
46. Number of Rotor Bars	41
47. Number of Broken Rotor Bars	0
48. Growler Test	(P) Pass
49. Rotor Condition	(P) Pass
Mechanical Inspection	

50.	Bearing Manufacture	skf
51.	Bearing DE Size	6316 c3s1
52.	Bearing DE Type	ball
53.	DE Bearing Qty.	1
54.	Bearing ODE Size	6316 c3s1
55.	Bearing ODE Type	ball
56.	ODE Bearing Qty.	1
57.	Insulated Bearing	no
58.	Lubrication Type	grease
<b>9</b> 59.	Grease Condition	(F) Fail
-	Contaminated with dirt	
<b>6</b> 0.	Bearing Retainers	(Y) Yes



<b>6</b> 1.	Shaft Grounding Device	(N) No
<b>6</b> 2.	DE Seal	(N) No
63.	DE Seal Type/Size	
<b>6</b> 4.	ODE Seal	(N) No
65.	ODE Seal Type/Size	
Root	Cause of Failure	
66.	Component Failure	bearings and windings
67.	Cause of Failure	
	Contamination caused windings to short. Bearings normal wear and contamination.	
68.	Comments	
69.	Service Technician	Trevor Hall
	/- H//	

## **Machine Fit Inspection Report**

70.	Shaft Run Out	(P) Pass
71.	Initial Shaft Run Out	0.001 "
72.	Final Shaft Run Out	
73.	DE Bearing Shaft Fit	(P) Pass
74.	DE Initial Shaft Bearing Fit Size 1	3.1498 "
75.	DE Initial Shaft Bearing Fit Size 2	3.1497 "

76.	DE Initial Shaft Bearing Fit Size 3	3.1497 "
77.	DE Finial Shaft Bearing Fit Size 1	
78.	DE Finial Shaft Bearing Fit Size 2	
79.	DE Finial Shaft Bearing Fit Size 3	
80.	ODE Bearing Shaft Fit	(P) Pass
81.	ODE Initial Shaft Bearing Fit Size 1	3.1496 "
82.	ODE Initial Shaft Bearing Fit Size 2	3.1497 "
83.	ODE Initial Shaft Bearing Fit Size 3	3.1497 "
	ODE Finial Shaft Bearing Fit Size 1	
	ODE Finial Shaft Bearing Fit Size 2	
	ODE Finial Shaft Bearing Fit Size 3	
87.	-	
88.	DE Initial Air Seal Shaft Size	
	DE Final Air Seal Shaft Size	
90.	ODE Air Seal Shaft Fit	
91.		
92.	ODE Final Air Seal Shaft Size	
93.		(P) Pass
	DE Initial Endbell Fit Size 1	6.6938 "
		6.694 "
	DE Initial Endbell Fit Size 3	6.6939 "
97.		0.0333
• • •	DE Finial Endbell Fit Size 2	
	DE Final Endbell Fit Size 3	
	DE Endbell Fit Insulated	(N) No
	DE Endbell Air Seal Fit	(14) 140
	Initial Endbell Air Seal Fit Size	
	Finial Endbell Air Seal Fit Size	
	ODE Endbell Fit	(F) Fail
	ODE Initial Endbell Fit Size 1	6.695 "
		6.6952 "
	ODE Initial Endbell Fit Size 2 ODE Initial Endbell Fit Size 3	
	ODE Final Endbell Fit Size 1	6.6952 "
		6.6934 "
	ODE Final Endbell Fit Size 2	6.6934 "
	ODE Final Endbell Fit Size 3	6.6934 "
	ODE Endbell Fit Insulated ODE Endbell Air Seal Fit	
	ODE Initial Endbell Seal Fit Size	
	ODE Finial Endbell Seal Fit Size	(=\ = .11
	Foot Flatness	(F) Fail
110	Broken	/ ·-
	Foot Condition	(F) Fail
	Broken	
	Flange Condition	_
118.	Service Technician	Trevor Hall

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#### **Balancing Report**

119. Balance Type



120. Balance Operating Speed	405 RPM
121. Start Left End	0.29 Mills
122. Start Right End	2.33 Mills
123. Balancing Specification	
124. Finish Left End	0.070000000000001 Mills
125. Finish Right End	0.09 Mills
126. Service Technician	RW



### **Assembly and Final Test**

127. Meggar Testing Reading 10,770 Mohm







129. Hi-Pot

130. Winding Resistance 1-2

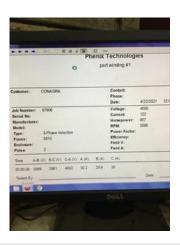
131. Winding Resistance 2-3

132. Winding Resistance 1-3

133. Test Run Voltage Phase A

**3977 Volts** 





134. Test Run Amps A 30.3 Amps

135. Test Run Voltage Phase B 3994 Volts



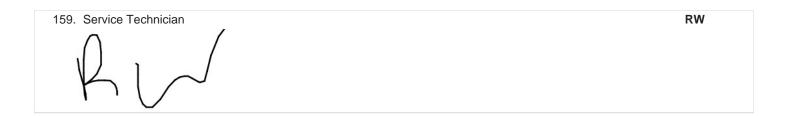
136. Test Run Amps B 29.6 Amps

137. Test Run Voltage Phase C 4013 Volts



138. Test Run Amps C	30.1 Amps
139. DE Horizontal Vibration Reading	
140. DE Vertical Vibration Reading	
141. DE Axial Vibration Reading	
142. ODE Horizontal Vibration Reading	
143. ODE Vertical Vibration Reading	
144. ODE Axial Vibration Reading	
145. Ambient Temp at start of Test Run	
146. Temp at 5 minutes	
147. Temp at 10 minutes	
148. Temp at 15 minutes	
149. Temp at 20 minutes	
150. Temp at 25 minutes	
151. Temp at 30 minutes	
152. Temp at 35 minutes	
153. Temp at 40 minutes	
154. Temp at 45 minutes	
155. Temp at 50 minutes	
156. Temp at 55 minutes	
157. Temp at 60 minutes	
158. Motor Paint	(P) Pass







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