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

AC Recondition Repair Report

FolderID: 98243
FormID: 10689435

Riviana Foods
28 W. White Oak st
Brinkley, AR 72021

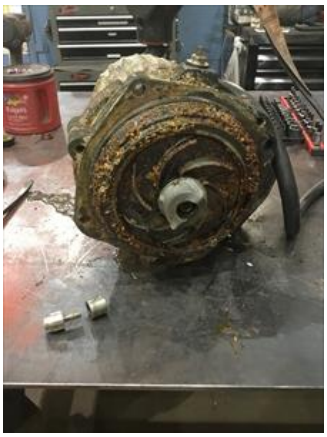
Priorities Found: **1 - High** **8 - Good**

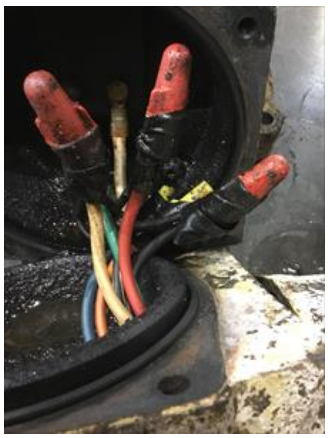
General

1.	Job Number	**98243**
2.	Report Date	**05/19/2021**
3.	Customer	**RIVIANA FOODS**

Name Plate Information

4.	Manufacturer	**FLYGT**	P5





	5.	Model	**3102.170-0630034**
	6.	Serial Number	**3102.170-0693 263**
	7.	Horsepower	**6**
	8.	KW	
	9.	Volts	**460**
	10.	Amps	**7.5**
	11.	RPM	**3455**
	12.	Frame	
	13.	Enclosure	**SUB PUMP**
	14.	Cycles	**60**
	15.	Phase	**3**
	16.	Service Factor	
	17.	Motor Mount Position	
Initial Inspection			
	18.	Number of Leads	**7**
	19.	Lead Length	**Inches**
	20.	Lead Size	
●	21.	Lead Condition	**(F) Fail**
		Water	
	22.	Lead Markings	**Red lead #2, Black lead #3, and White #1 power.**
		Orange and blue are sensor leads. Green and white with black stripe are ground.	
	23.	Lug Size, Condition, and Type	
	24.	Winding RTD's	
	25.	Winding Rtd's Condition	
	26.	Shaft Run Out	
	27.	Does Shaft Turn Freely	**no**
	28.	Does Shaft Have Visible Damage	**no**
	29.	Bearing Rtd's	**(NA) Not Applicable**
●	30.	Bearing Rtd's Condition	**(NA) Not Applicable**
	31.	Contamination	
		Water and debris.	
●	32.	Frame Condition	**(P) Pass**
●	33.	Fan Condition	**(NA) Not Applicable**
	34.	Broken or missing components	
		Cutter ring missing	

Initial Electric Test				
	35.	Resistance to Ground	**0.11 Mohm**	
	36.	Winding Resistance 1-2		
	37.	Winding Resistance 2-3		
	38.	Winding Resistance 1-3		
	39.	Resistive Imbalance		
	40.	Hi-Pot		
●	41.	Surge Test	**(NA) Not Applicable**	
	42.	Stator Condition	**good**	
	43.	Failure Location	**windings**	
Initial Rotor Inspection				
	44.	Rotor Type	**laminate squirrel cage**	
	45.	Air Gap <10% Variation		
	46.	Number of Rotor Bars		
	47.	Number of Broken Rotor Bars	**0**	
●	48.	Growler Test	**(P) Pass**	
●	49.	Rotor Condition	**(P) Pass**	
Mechanical Inspection				
	50.	Bearing Manufacture	**koyo**	P1

	51.	Bearing DE Size	**5305 Z C3**	
	52.	Bearing DE Type	**double wide regular ball bearing**	
	53.	DE Bearing Qty.	**1**	
	54.	Bearing ODE Size	**6305 2Z/C3**	

	55.	Bearing ODE Type	**regular ball bearing**

	56.	ODE Bearing Qty.	**1**
	57.	Insulated Bearing	**no**
	58.	Lubrication Type	**oil**
●	59.	Grease Condition	**(NA) Not Applicable**
●	60.	Bearing Retainers	**(Y) Yes**
	61.	Shaft Grounding Device	**(NA) Not Applicable**
	62.	DE Seal	
	63.	DE Seal Type/Size	
	64.	ODE Seal	
	65.	ODE Seal Type/Size	

Root Cause of Failure

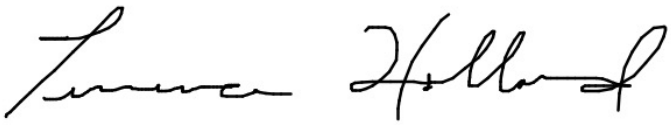
	66.	Component Failure	**seals failed**
	67.	Cause of Failure	

Debris became lodged in between the cutter and the impeller causing motor to lock up. Also both seals failed on D.E. shaft in conjunction the power cord grommet seals, which allowed water to enter inside the stator windings resulting in an electrical short.

	68.	Comments	

Rewind stator, and replace power cord. 28'- 7C / 12 AWG. Replace all o rings and seals. Replace worn impeller.

	69.	Service Technician	**Terrence. Hollnd**



Machine Fit Inspection Report

70.	Shaft Run Out	
71.	Initial Shaft Run Out	
72.	Final Shaft Run Out	
73.	DE Bearing Shaft Fit	
74.	DE Initial Shaft Bearing Fit Size 1	
75.	DE Initial Shaft Bearing Fit Size 2	
76.	DE Initial Shaft Bearing Fit Size 3	
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	
81.	ODE Initial Shaft Bearing Fit Size 1	
82.	ODE Initial Shaft Bearing Fit Size 2	
83.	ODE Initial Shaft Bearing Fit Size 3	
84.	ODE Finial Shaft Bearing Fit Size 1	
85.	ODE Finial Shaft Bearing Fit Size 2	
86.	ODE Finial Shaft Bearing Fit Size 3	
87.	DE Air Seal Shaft Fit	
88.	DE Initial Air Seal Shaft Size	
89.	DE Final Air Seal Shaft Size	
90.	ODE Air Seal Shaft Fit	
91.	ODE Initial Air Seal Shaft Size	
92.	ODE Final Air Seal Shaft Size	
93.	DE Endbell Fit	
94.	DE Initial Endbell Fit Size 1	
95.	DE Initial Endbell Fit Size 2	
96.	DE Initial Endbell Fit Size 3	
97.	DE Final Endbell Fit Size 1	
98.	DE Finial Endbell Fit Size 2	
99.	DE Final Endbell Fit Size 3	
100.	DE Endbell Fit Insulated	
101.	DE Endbell Air Seal Fit	
102.	Initial Endbell Air Seal Fit Size	
103.	Finial Endbell Air Seal Fit Size	
104.	ODE Endbell Fit	
105.	ODE Initial Endbell Fit Size 1	
106.	ODE Initial Endbell Fit Size 2	
107.	ODE Initial Endbell Fit Size 3	
108.	ODE Final Endbell Fit Size 1	
109.	ODE Final Endbell Fit Size 2	
110.	ODE Final Endbell Fit Size 3	
111.	ODE Endbell Fit Insulated	
112.	ODE Endbell Air Seal Fit	
113.	ODE Initial Endbell Seal Fit Size	
114.	ODE Finial Endbell Seal Fit Size	
115.	Foot Flatness	
116.	Foot Condition	
117.	Flange Condition	
118.	Service Technician	

Balancing Report

119.	Balance Type	
120.	Balance Operating Speed	
121.	Start Left End	
122.	Start Right End	
123.	Balancing Specification	
124.	Finish Left End	
125.	Finish Right End	**Mills**
126.	Service Technician	

Assembly and Final Test		
127.	Meggar Testing Reading	
128.	Surge Test	
129.	Hi-Pot	
130.	Winding Resistance 1-2	
131.	Winding Resistance 2-3	
132.	Winding Resistance 1-3	
133.	Test Run Voltage Phase A	
134.	Test Run Amps A	
135.	Test Run Voltage Phase B	
136.	Test Run Amps B	
137.	Test Run Voltage Phase C	
138.	Test Run Amps C	
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	**Degrees F.**
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	
159.	Service Technician	