



## Submersible Pump Repair Report

Sage V Foods

5901 SLOAN DRIVE

LITTLE ROCK, AR 72206

FolderID: 99969  
FormID: 13918723

### Submersible Pump Repair Report

Location: MOTOR SHOP LR

Serial Number: J75C-F

Description: 10HP BJM PUMP 3600RPM

Make: BJM

HP: 10 (HP)

Model: J75C-F

V: 460 (V)

A: 15 (A)

RPM: 3450 (RPM)

Hz: 60 (Hz)

Phase: 3

GPM: 647 (GPM)

Head: 110 (Feet)

Impeller Diameter: 5.9 (in)

Outlet Diameter: 4 (in)

Priorities Found: ● 2 - High ● 23 - Good

### General

1. Job Number	99969
2. Report Date	06/24/2022
3. Customer	Sage V Foods

### Initial Pump Inspection

4. Power Cord Wire Size	10 AWG
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5.	Power Cord # of Conductors	4
6.	Power Cord Length	35 ft
● 7.	Power Cord Condition	(P) Pass
8.	Sensor Cord Wire Size	18 AWG
9.	Sensor Cord # of Conductors	4
10.	Sensor Cord Length	35 ft
● 11.	Sensor Cord Condition	(P) Pass
● 12.	Sensor Cord for Thermal Protection?	(Y) Yes
● 13.	Sensor Cord for Water Protection	(Y) Yes
● 14.	Bowl Condition	(P) Pass
● 15.	Impeller Condition	(P) Pass

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16.	Number of Wear Rings	0
17.	Wear Ring Condition	(N) NA
18.	Wear Ring Size	in
19.	Wear Ring Clearance to Impeller	
20.	Wear Ring Material	
21.	Seal Surfaces Condition	(P) Pass
22.	Seal Type	Mechanical Lip
23.	Number of Seals	3
24.	Seal Material on Rotary Face	
25.	Seal Material on Stationary Seat	
26.	Elastic Component Material	
27.	Seal OD	
28.	Seal ID	
29.	Seal Sleeve Material	stainless
30.	Seal Plate Condition	(P) Pass
31.	Water Sensor in Seal Cavity?	(Y) Yes
32.	Oil Filled Seal Cavity?	(Y) Yes
33.	Oil Filled Stator?	(Y) Yes
<b>Initial Inspection</b>		
34.	Number of Leads	3
35.	Lead Length	12 Inches
36.	Lead Size	10
37.	Lead Condition	(P) Pass
38.	Lead Markings	no markings
39.	Lead Size for Oil Filled Stator	10 AWG
40.	Lug Size, Condition, and Type	
41.	Overload Required?	
42.	Winding RTD's	
43.	Winding Rtd's Condition	
44.	Shaft Run Out	
45.	Does Shaft Turn Freely	no
46.	Does Shaft Have Visible Damage	no
47.	Bearing Rtd's	
48.	Bearing Rtd's Condition	
49.	Contamination	
	Water	
50.	Frame Condition	(P) Pass
51.	Fan Condition	(NA) Not Applicable
52.	Broken or missing components	
<b>Initial Electric Test</b>		
53.	Resistance to Ground	0 Mohm
54.	Winding Resistance 1-2	
55.	Winding Resistance 2-3	
56.	Winding Resistance 1-3	
57.	Resistive Imbalance	%
58.	Hi-Pot	

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59.	Surge Test	(F) Fail
60.	Stator Condition	rewind
61.	Failure Location	lower (drive end)
<b>Initial Rotor Inspection</b>		
62.	Rotor Type	cast aluminum
63.	Air Gap <10% Variation	
64.	Number of Rotor Bars	28
65.	Number of Broken Rotor Bars	
66.	Growler Test	(P) Pass
67.	Rotor Condition	(P) Pass
<b>Mechanical Inspection</b>		
68.	Bearing Manufacturer	
69.	Bearing DE Size	6307
70.	Bearing DE Type	deep groove ball
71.	DE Bearing Qty.	2
72.	Bearing ODE Size	6305
73.	Bearing ODE Type	deep groove ball
74.	ODE Bearing Qty.	1
75.	Insulated Bearing	
76.	Lubrication Type	oil
77.	Grease Condition	
78.	Bearing Retainers	(NA) Not Applicable
79.	Shaft Grounding Device	(NA) Not Applicable
80.	DE Seal	(Y) Yes
81.	DE Seal Type/Size	
82.	ODE Seal	
83.	ODE Seal Type/Size	
<b>Root Cause of Failure</b>		
84.	Component Failure	stator
85.	Cause of Failure	<i>Water contamination</i>
86.	Comments	<i>Rewind, 2 - 35*62*12 seals, double mechanical seal, weld and machine shaft DE, repot 2 cords, replace O rings with stock mat.</i>
87.	Service Technician	David Maclin
		
<b>Machine Fit Inspection Report</b>		
88.	Shaft Run Out	
89.	Initial Shaft Run Out	
90.	Final Shaft Run Out	
91.	DE Bearing Shaft Fit	(F) Fail
92.	DE Initial Shaft Bearing Fit Size	
	Measure 1	Measure 2
		Measure 3

93.	DE Final Shaft Bearing Fit Size		
	Measure 1	Measure 2	Measure 3
94.	ODE Bearing Shaft Fit		(P) Pass
95.	ODE Initial Shaft Bearing Fit Size		
	Measure 1	Measure 2	Measure 3
96.	ODE Final Shaft Bearing Fit Size		
	Measure 1	Measure 2	Measure 3
97.	DE Air Seal Shaft Fit		
98.	DE Air Seal Shaft Size		
	Initial	Final	
99.	ODE Air Seal Shaft Fit		
100.	ODE Air Seal Shaft Size		
	Initial	Final	
101.	DE Endbell Fit		(P) Pass
102.	DE Initial Endbell Fit Size		
	Measure 1	Measure 2	Measure 3
103.	DE Final Endbell Fit Size		
	Measure 1	Measure 2	Measure 3
104.	DE Endbell Fit Insulated		
105.	DE Endbell Air Seal Fit		
106.	DE Endbell Air Seal Fit Size		
	Initial	Final	
107.	ODE Endbell Fit		(P) Pass
108.	ODE Initial Endbell Fit Size		
	Measure 1	Measure 2	Measure 3
109.	ODE Final Endbell Fit Size		
	Measure 1	Measure 2	Measure 3
110.	ODE Endbell Fit Insulated		
111.	ODE Endbell Air Seal Fit		
112.	ODE Endbell Air Seal Fit Size		
	Initial	Final	
113.	Foot Flatness		(NA) Not Applicable
114.	Foot Condition		(NA) Not Applicable
115.	Flange Condition		(NA) Not Applicable
116.	Service Technician		David Maclin

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## Balancing Report

- 117. Balance Type
- 118. Balance Operating Speed
- 119. Start Left End
- 120. Start Right End
- 121. Balancing Specification
- 122. Finish Left End
- 123. Finish Right End
- 124. Service Technician

## Assembly and Final Test



- 125. Rotor and Impeller Balanced
- 126. Stator Housing Refilled with Oil (if required)
- 127. Stator Pressure Test
- 128. Seal Cavity Pressure Test
- 129. Time Under Pressure
- 130. Overload Continuity
- 131. Water Sensor Open?
- 132. Meggar Testing Reading
- 133. Surge Test
- 134. Hi-Pot
- 135. Winding Resistance

1-2

2-3

3-1

- 136. Test Run
- 137. Test Run Voltage

Phase A

Phase B

Phase C

- 138. Test Run Current

Phase A

Phase B

Phase C

- 139. DE Vibration Reading

Horizontal

Vertical

Axial

- 140. ODE Vibration Reading

Horizontal

Vertical

Axial

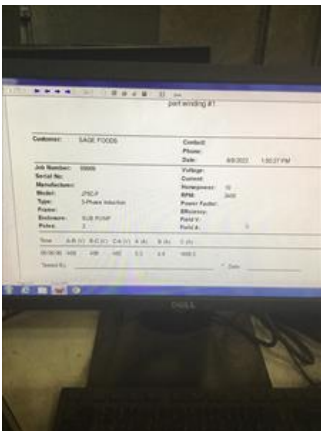
- 141. Ambient Temp at start of Test Run
- 142. Temp at 5 minutes
- 143. Temp at 10 minutes
- 144. Temp at 15 minutes
- 145. Temp at 20 minutes
- 146. Temp at 25 minutes
- 147. Temp at 30 minutes

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- 148. Temp at 35 minutes
- 149. Temp at 40 minutes
- 150. Temp at 45 minutes
- 151. Temp at 50 minutes
- 152. Temp at 55 minutes
- 153. Temp at 60 minutes
- 154. Motor Paint

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155. Service Technician

**Terrence. Holland**

A handwritten signature in black ink, appearing to read "Terrence Holland", written over a horizontal line.