



Submersible Pump Repair Report

FolderID: 99576
FormID: 13198977

Sage V Foods
5901 SLOAN DRIVE
LITTLE ROCK, AR 72206

Priorities Found: ● 4 - Good

General

1. Job Number	99576
2. Report Date	03/29/2022
3. Customer	Sage V Foods

Name Plate Information



4. Manufacturer	Pentair	P1
Hydromatic		









5. Model	S4SD750M4-4
6. Serial Number	10644376
7. Horsepower	7.5
8. KW	
9. Volts	460
10. Amps	12.6
11. RPM	1750
12. Frame	Sub Pump
13. Enclosure	Sub Pump
14. Cycles	60
15. Phase	3
16. Service Factor	1.2
17. Motor Mount Position	
18. Inlet Diameter	
19. Outlet Diameter	
20. Flow Rate	
21. Pressure Head	
Initial Pump Inspection	
22. Power Cord Wire Size	
23. Power Cord # of Conductors	
24. Power Cord Length	
25. Power Cord Condition	
26. Sensor Cord Wire Size	
27. Sensor Cord # of Conductors	
28. Sensor Cord Length	
29. Sensor Cord Condition	
30. Sensor Cord for Thermal Protection?	
31. Sensor Cord for Water Protection	
32. Bowl Condition	



- | | | |
|-----|----------------------------------|---|
| 34. | Number of Wear Rings | |
| 35. | Wear Ring Condition | |
| 36. | Wear Ring Size | |
| 37. | Wear Ring Clearance to Impeller | |
| 38. | Wear Ring Material | |
| 39. | Seal Surfaces Condition | |
| 40. | Seal Type | |
| 41. | Number of Seals | 2 |
| 42. | Seal Material on Rotary Face | |
| 43. | Seal Material on Stationary Seat | |
| 44. | Elastic Component Material | |
| 45. | Seal OD | |
| 46. | Seal ID | |
| 47. | Seal Sleeve Material | |
| 48. | Seal Plate Condition | |
| 49. | Water Sensor in Seal Cavity? | |
| 50. | Oil Filled Seal Cavity? | |
| 51. | Oil Filled Stator? | |

Initial Inspection

- | | | |
|-----|---------------------------------|--|
| 52. | Number of Leads | |
| 53. | Lead Length | |
| 54. | Lead Size | |
| 55. | Lead Condition | |
| 56. | Lead Markings | |
| 57. | Lead Size for Oil Filled Stator | |
| 58. | Lug Size, Condition, and Type | |
| 59. | Overload Required? | |
| 60. | Winding RTD's | |
| 61. | Winding Rtd's Condition | |
| 62. | Shaft Run Out | |
| 63. | Does Shaft Turn Freely | |

64. Does Shaft Have Visible Damage

yes. broken

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 Machined and installed new shaft.



65. Bearing Rtd's

66. Bearing Rtd's Condition

67. Contamination

68. Frame Condition

 69. Fan Condition (NA) Not Applicable

70. Broken or missing components

Initial Electric Test

71. Resistance to Ground

72. Winding Resistance 1-2

73. Winding Resistance 2-3

74. Winding Resistance 1-3

75. Resistive Imbalance

76. Hi-Pot

77. Surge Test

78. Stator Condition pass

79. Failure Location

Initial Rotor Inspection

80. Rotor Type squirrel cage laminate

81. Air Gap <10% Variation

82. Number of Rotor Bars

83. Number of Broken Rotor Bars 0

84. Growler Test

85. Rotor Condition

Mechanical Inspection

86. Bearing Manufacturer

87. Bearing DE Size

88. Bearing DE Type

89. DE Bearing Qty. 1

90. Bearing ODE Size

91. Bearing ODE Type

92. ODE Bearing Qty. 1

93. Insulated Bearing no

94. Lubrication Type oil

 95. Grease Condition (NA) Not Applicable

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96. Bearing Retainers	(NA) Not Applicable
97. Shaft Grounding Device	(NA) Not Applicable
98. DE Seal	
99. DE Seal Type/Size	
100. ODE Seal	
101. ODE Seal Type/Size	
Root Cause of Failure	
102. Component Failure	
103. Cause of Failure	
104. Comments	
105. Service Technician	
Machine Fit Inspection Report	
106. Shaft Run Out	
107. Initial Shaft Run Out	
108. Final Shaft Run Out	
109. DE Bearing Shaft Fit	
110. DE Initial Shaft Bearing Fit Size 1	
111. DE Initial Shaft Bearing Fit Size 2	
112. DE Initial Shaft Bearing Fit Size 3	
113. DE Finial Shaft Bearing Fit Size 1	
114. DE Finial Shaft Bearing Fit Size 2	
115. DE Finial Shaft Bearing Fit Size 3	
116. ODE Bearing Shaft Fit	
117. ODE Initial Shaft Bearing Fit Size 1	
118. ODE Initial Shaft Bearing Fit Size 2	
119. ODE Initial Shaft Bearing Fit Size 3	
120. ODE Finial Shaft Bearing Fit Size 1	
121. ODE Finial Shaft Bearing Fit Size 2	
122. ODE Finial Shaft Bearing Fit Size 3	
123. DE Air Seal Shaft Fit	
124. DE Initial Air Seal Shaft Size	
125. DE Final Air Seal Shaft Size	
126. ODE Air Seal Shaft Fit	
127. ODE Initial Air Seal Shaft Size	
128. ODE Final Air Seal Shaft Size	
129. DE Endbell Fit	
130. DE Initial Endbell Fit Size 1	
131. DE Initial Endbell Fit Size 2	
132. DE Initial Endbell Fit Size 3	
133. DE Final Endbell Fit Size 1	
134. DE Finial Endbell Fit Size 2	
135. DE Final Endbell Fit Size 3	
136. DE Endbell Fit Insulated	
137. DE Endbell Air Seal Fit	
138. Initial Endbell Air Seal Fit Size	
139. Finial Endbell Air Seal Fit Size	
140. ODE Endbell Fit	
141. ODE Initial Endbell Fit Size 1	

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142.	ODE Initial Endbell Fit Size 2
143.	ODE Initial Endbell Fit Size 3
144.	ODE Final Endbell Fit Size 1
145.	ODE Final Endbell Fit Size 2
146.	ODE Final Endbell Fit Size 3
147.	ODE Endbell Fit Insulated
148.	ODE Endbell Air Seal Fit
149.	ODE Initial Endbell Seal Fit Size
150.	ODE Final Endbell Seal Fit Size
151.	Foot Flatness
152.	Foot Condition
153.	Flange Condition
154.	Service Technician
Balancing Report	
155.	Balance Type
156.	Balance Operating Speed
157.	Start Left End
158.	Start Right End
159.	Balancing Specification
160.	Finish Left End
161.	Finish Right End
162.	Service Technician
Assembly and Final Test	
163.	Rotor and Impeller Balanced
164.	Stator Housing Refilled with Oil (if required)
165.	Stator Pressure Test
166.	Seal Cavity Pressure Test
167.	Time Under Pressure
168.	Overload Continuity
169.	Water Sensor Open?
170.	Meggar Testing Reading
171.	Surge Test
172.	Hi-Pot
173.	Winding Resistance 1-2
174.	Winding Resistance 2-3
175.	Winding Resistance 1-3
176.	Test Run
177.	Test Run Voltage Phase A
178.	Test Run Amps A
179.	Test Run Voltage Phase B
180.	Test Run Amps B
181.	Test Run Voltage Phase C
182.	Test Run Amps C
183.	DE Horizontal Vibration Reading
184.	DE Vertical Vibration Reading
185.	DE Axial Vibration Reading
186.	ODE Horizontal Vibration Reading
187.	ODE Vertical Vibration Reading

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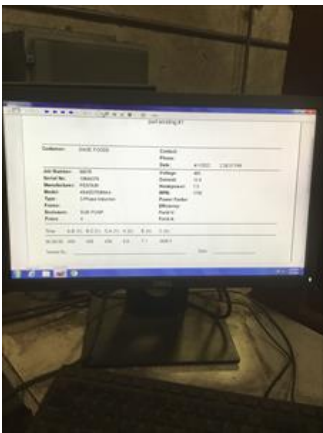
188. ODE Axial Vibration Reading
189. Ambient Temp at start of Test Run
190. Temp at 5 minutes
191. Temp at 10 minutes
192. Temp at 15 minutes
193. Temp at 20 minutes
194. Temp at 25 minutes
195. Temp at 30 minutes
196. Temp at 35 minutes
197. Temp at 40 minutes
198. Temp at 45 minutes
199. Temp at 50 minutes
200. Temp at 55 minutes
201. Temp at 60 minutes

● 202. Motor Paint

(P) Pass

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203. Service Technician

Terrence. Holland

Terrence Holland