



## Submersible Pump Repair Report

Tyson Foods (10280)

200 E. Cherry  
Clarksville, AR 72830

FolderID: 103576  
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### Submersible Pump Repair Report

Location: LITTLE ROCK MOTOR SHOP

Serial Number:

Description: 7.5hp Goulds Pump

Make: GOULDS

HP: 7.5 (HP)

Model: HS7534D4

V: 460 (V)

A: 11.5 (A)

RPM: 1725 (RPM)

Hz: 60 (Hz)

Phase: 3

Priorities Found: ● 3 - High ● 20 - Good

### General



1. Job Number 103576

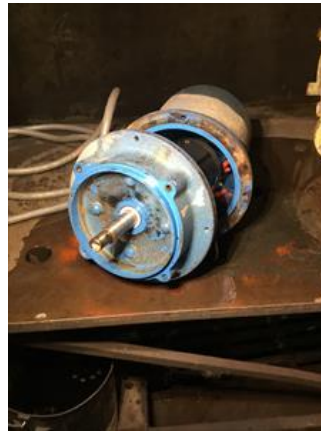
2. Report Date

3. Customer Tyson foods P27



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### Initial Pump Inspection



















4. Power Cord Wire Size	10 AWG	
5. Power Cord # of Conductors	4	P19





6. Power Cord Length	21 ft
7. Power Cord Condition	(P) Pass
8. Sensor Cord Wire Size	AWG
9. Sensor Cord # of Conductors	
10. Sensor Cord Length	ft
11. Sensor Cord Condition	
12. Sensor Cord for Thermal Protection?	
13. Sensor Cord for Water Protection	

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14.	Bowl Condition	
	15. Impeller Condition	(P) Pass
16.	Number of Wear Rings	
	17. Wear Ring Condition	(P) Pass
18.	Wear Ring Size	in
19.	Wear Ring Clearance to Impeller	in
20.	Wear Ring Material	
	21. Seal Surfaces Condition	(F) Fail
	<i>Shaft seal surface</i>	
22.	Seal Type	
		Mechanical
23.	Number of Seals	2
24.	Seal Material on Rotary Face	carbon
25.	Seal Material on Stationary Seat	ceramic
26.	Elastic Component Material	
27.	Seal OD	1.7325 in
28.	Seal ID	1.125 in
	<i>Seal shaft surface.</i>	
29.	Seal Sleeve Material	
	30. Seal Plate Condition	(P) Pass
	31. Water Sensor in Seal Cavity?	(N) No
	32. Oil Filled Seal Cavity?	(Y) Yes
	33. Oil Filled Stator?	(Y) Yes
Initial Inspection		
34.	Number of Leads	9
35.	Lead Length	10 Inches
36.	Lead Size	
	37. Lead Condition	(P) Pass
38.	Lead Markings	1-9
39.	Lead Size for Oil Filled Stator	AWG
40.	Lug Size, Condition, and Type	
	41. Overload Required?	(N) No
42.	Winding RTD's	(NA) Not Applicable
	43. Winding Rtd's Condition	(NA) Not Applicable
44.	Shaft Run Out	
45.	Does Shaft Turn Freely	yes
46.	Does Shaft Have Visible Damage	yes
	<i>Seal surface worn</i>	
47.	Bearing Rtd's	(NA) Not Applicable
	48. Bearing Rtd's Condition	(NA) Not Applicable
49.	Contamination	
	<i>Yes: water</i>	
	50. Frame Condition	(P) Pass
	51. Fan Condition	(NA) Not Applicable
52.	Broken or missing components	
	<i>None</i>	
Initial Electric Test		
53.	Resistance to Ground	Mohm

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54.	Winding Resistance 1-2	Ohm	
55.	Winding Resistance 2-3	Ohm's	
56.	Winding Resistance 1-3	Ohm's	
57.	Resistive Imbalance	%	
58.	Hi-Pot	Ua	
59.	Surge Test	(NA) Not Applicable	P56
			
60.	Stator Condition	rewind	
61.	Failure Location	stator windings blown	
<b>Initial Rotor Inspection</b>			
62.	Rotor Type	squirrel cage aluminum	
63.	Air Gap <10% Variation	(NA) Not Applicable	
64.	Number of Rotor Bars	48	
65.	Number of Broken Rotor Bars	0	
66.	Growler Test	(P) Pass	
67.	Rotor Condition	(P) Pass	
<b>Mechanical Inspection</b>			
68.	Bearing Manufacturer	NSK	
69.	Bearing DE Size	206	P18
			
206 Double wide. Double row			
70.	Bearing DE Type	Double wide	
71.	DE Bearing Qty.	1	

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73. Bearing ODE Type	ball bearing
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



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81. DE Seal Type/Size	mechanical carbon / sic
82. ODE Seal	(Y) Yes

P89



83. ODE Seal Type/Size	carbon ceramic		
<b>Root Cause of Failure</b>			
84. Component Failure	lower and upper seals		
85. Cause of Failure	Seal failure allowed water to penetrate the winding housing shorting the coils.		
86. Comments			
87. Service Technician	Terrence Holland		
 			
<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	(P) Pass		
92. DE Initial Shaft Bearing Fit Size			
Measure 1	Measure 2	Measure 3	
1.1812	1.1813	1.1814	
93. DE Final Shaft Bearing Fit Size			
Measure 1	Measure 2	Measure 3	
94. ODE Bearing Shaft Fit	(F) Fail		
95. ODE Initial Shaft Bearing Fit Size			
Measure 1	Measure 2	Measure 3	
0.7865			
Minimum allowed is 0.7875			
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			

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105.	DE Endbell Air Seal Fit		
106.	DE Endbell Air Seal Fit Size		
	Initial	Final	
107.	ODE Endbell Fit		
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		
114.	Foot Condition		
115.	Flange Condition		
116.	Service Technician		
<b>Balancing Report</b>			
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		
<b>Assembly and Final Test</b>			
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			
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			
155. Service Technician			