

Submersible Pump Repair Report Tyson Foods (10914) 1238 Market Street

Clarksville, AR 72830

FolderID: 103357 FormID: 21341904

Submersible Pump Repair Report		
Location:	MOTOR SHOP LR	
Serial Number:	WS5012D4	
Description:5HP	GOULD PUMP	

HP:	5 (HP)	
Model:	M2344254	
Serial:	WS5012D4	
V:	230 (V)	
RPM:	1725 (RPM)	
Hz:	60 (Hz)	
Phase:	1	

Priorities Found: 1 - High

26 - Good

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Gener	ral		To the second
1.	Job Number		103357
2.	Report Date		08/20/2024

Customer P27

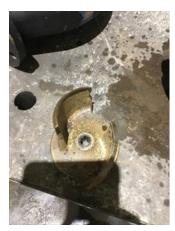
















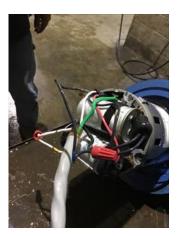
























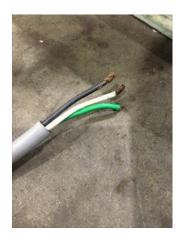
4. Power Cord Wire Size







0



6. Power Cord Length 20 ft

7. Power Cord Condtion(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?	(N) No	
13.	Sensor Cord for Water Protection	(NA) Not Applicable	
14.	Bowl Condition	(P) Pass	P74



15. Impeller Condition (P) Pass P80



16.	Number of Wear Rings	1	
17.	Wear Ring Condition		
18.	Wear Ring Size	in	
19.	Wear Ring Clearance to Impeller	in	
20.	Wear Ring Material		
21.	Seal Surfaces Condition	(F) Fail	P98





22.	Seal Type		
		Mechanical	
23.	Number of Seals	2	
24.	Seal Material on Rotary Face	tungsten carbon	
25.	Seal Material on Stationary Seat	tungsten ceramic	
26.	Elastic Component Material	Viton	
27.	Seal OD	1.7525 in	
28.	Seal ID	1.1498 in	
29.	Seal Sleeve Material		



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 4 P16



35.	Lead Length	8 Inches
36.	Lead Size	
37.	Lead Condition	(P) Pass
38.	Lead Markings	none
39.	Lead Size for Oil Filled Stator	AWG
40.	Lug Size, Condition, and Type	
41.	Overload Required?	(N) No
42.	Winding RTD's	(N) No
43.	Winding Rtd's Condition	
44.	Shaft Run Out	0.002
45.	Does Shaft Turn Freely	yes
46.	Does Shaft Have Visible Damage	yes, seal surface worn
47.	Bearing Rtd's	(N) No
48.	Bearing Rtd's Condition	
49.	Contamination	
	None	
50.	Frame Condition	(P) Pass

51.	Fan Condition		
52.	Broken or missing components		
	None		
Initial I	Electric Test		
53.	Resistance to Ground	2,000 Mohm	
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		
60.	Stator Condition	pass	
61.	Failure Location		
-	Impeller was entangled with rag like materials.		
Initial I	Rotor Inspection		
62.	Rotor Type	squirrel cage	
63.	Air Gap <10% Variation	(P) Pass	
64.	Number of Rotor Bars	48	
65.	Number of Broken Rotor Bars	0	
66.	Growler Test	(P) Pass	
67.	Rotor Condition	(P) Pass	
Mecha	nical Inspection		O
68.	Bearing Manufacturer	koyo	
69.	Bearing DE Size	6206	P18



70.	Bearing DE Type	ball bearing.
71.	DE Bearing Qty.	1
72.	Bearing ODE Size	6204



	74.	ODE Bearing Qty.	1
	75.	Insulated Bearing	no
	76.	Lubrication Type	oil
	77.	Grease Condition	(NA) Not Applicable
	78.	Bearing Retainers	(NA) Not Applicable
	79.	Shaft Grounding Device	(NA) Not Applicable
	80.	DE Seal	(Y) Yes
	81.	DE Seal Type/Size	viton sic, sic
	82.	ODE Seal	(Y) Yes
	83.	ODE Seal Type/Size	carbon ceramic
-		Annual of Fallows	

Root Cause of Failure

84. Component Failure impeller

85. Cause of Failure

Excessive amounts of rag like material entangled around the impeller

86. Comments

Motor test ran good.

87. Service Technician Terrence Holland



M	Machine Fit Inspection Report					
	88.	Shaft Run Out		(P) Pas	s	
	89.	Initial Shaft Run Out		0.002	п	
	90.	Final Shaft Run Out		0	п	
	91.	DE Bearing Shaft Fit		(P) Pas	s	
	92.	DE Initial Shaft Bearing Fit Size				
		Measure 1	Measure 2	Measure 3		
		1.1813	1.1812	1.1813		
	93.	DE Final Shaft Bearing Fit Size				
		Measure 1	Measure 2	Measure 3		
	94.	ODE Bearing Shaft Fit		(P) Pas	S	

0E	ODE Initial Shoft Pooring Eit Size		
95.	ODE Initial Shaft Bearing Fit Size	Marana	Marriage
	Measure 1	Measure 2	Measure 3
	0.7877	0.7875	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	
	ODE Air Seal Shaft Fit		
100.	ODE Air Seal Shaft Size		
	Initial	Final	
	DE Endbell Fit		(P) Pass
102.	DE Initial Endbell Fit Size		
	Measure 1	Measure 2	Measure 3
	2.4412	2.441	2.4412
103.	DE Final Endbell Fit Size		
	Measure 1	Measure 2	Measure 3
104.	DE Endbell Fit Insulated		(NA) Not Applicable
105.	DE Endbell Air Seal Fit		(NA) Not Applicable
106.	DE Endbell Air Seal Fit Size		
	Initial	Final	
	ODE Endbell Fit		(P) Pass
108.	ODE Initial Endbell Fit Size		
	Measure 1	Measure 2	Measure 3
	1.8508	1.8507	1.8507
109.	ODE Final Endbell Fit Size		
	Measure 1	Measure 2	Measure 3
	ODE Endbell Fit Insulated		
	ODE Endbell Air Seal Fit		
112.	ODE Endbell Air Seal Fit Size		
	Initial	Final	
	Foot Flatness		
	Foot Condition		45) 5
	Flange Condition		(P) Pass
116.	Service Technician		Terrence Holland
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-	Witness: DWM						
Balanc	ncing Report						
	'. Balance Type						
	Balance Operating Speed						
119.	Start Left End						
120.	Start Right End						
121.	Balancing Specification						
122.	Finish Left End						
123.	Finish Right End						
124.	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.	143. Temp at 10 minutes						
144.	Temp at 15 minutes						
145.	145. Temp at 20 minutes						
146.	Temp at 25 minutes						
147.							
148.	Temp at 35 minutes						
	Temp at 35 minutes						
149.	Temp at 40 minutes						
	·						

152. Temp at 55 minutes	
153. Temp at 60 minutes	
154. Motor Paint	
155. Service Technician	