



**Submersible Pump Repair Report**  
**MOUNTAIN VIEW WASTE WATER**  
340 WESTWOOD  
MOUNTAIN VIEW, AR 72560

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<b>Submersible Pump Repair Report</b>		<b>Make:</b>	HYDROMATIC
<b>Location:</b>	MOTOR SHOP LR	<b>HP:</b>	5 (HP)
<b>Serial Number:</b>	G32737	<b>Model:</b>	HPGF500M2-4
<b>Description:</b> 5HP HYDROMATIC 1800RPM SUBMERSIBLE PUMP		<b>Serial:</b>	G32737
		<b>V:</b>	230 (V)
		<b>A:</b>	29.5 (A)
		<b>RPM:</b>	1750 (RPM)
		<b>Hz:</b>	60 (Hz)
		<b>Phase:</b>	1

Priorities Found: ● 2 - High ● 31 - Good

**General** 📷

1. Job Number

2. Report Date

3. Customer
- Mountain View WW
- P27



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## Initial Pump Inspection



4.	Power Cord Wire Size	8 AWG	P7
	<div> <div></div> <div>8AWG /4C power cord 16 AWG /4C sensor cord</div> </div>		
			
5.	Power Cord # of Conductors	4	
	<div> <div></div> <div>White power- # 1&amp;5 Black power - #4 Red power - #8</div> </div>		
6.	Power Cord Length	25 ft	
7.	Power Cord Condition	(P) Pass	
8.	Sensor Cord Wire Size	16 AWG	
	<div> <div></div> <div>Black - #P1 White - P2 Red - sensor</div> </div>		
9.	Sensor Cord # of Conductors	4	
10.	Sensor Cord Length	25 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	P80
			














16. Number of Wear Rings	1	
17. Wear Ring Condition	(P) Pass	
18. Wear Ring Size		
19. Wear Ring Clearance to Impeller	in	
20. Wear Ring Material		
21. Seal Surfaces Condition	(P) Pass	
22. Seal Type	Mechanical	P102





23. Number of Seals	2	P105
Both seals identical		



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24.	Seal Material on Rotary Face	sic	
25.	Seal Material on Stationary Seat	sic	
26.	Elastic Component Material	Viton	
27.	Seal OD	1.8625 in	
	<i>Both seals identical</i>		
28.	Seal ID	1.285 in	
29.	Seal Sleeve Material		
	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
Initial Inspection 			
34.	Number of Leads	4	
35.	Lead Length	8 Inches	
36.	Lead Size		
	37.	Lead Condition	(F) Fail P45
			
38.	Lead Markings		
39.	Lead Size for Oil Filled Stator		
40.	Lug Size, Condition, and Type		
	41.	Overload Required?	(Y) Yes
42.	Winding RTD's	(NA) Not Applicable	
	43.	Winding Rtd's Condition	(NA) Not Applicable
44.	Shaft Run Out	0.001	
45.	Does Shaft Turn Freely	yes	
46.	Does Shaft Have Visible Damage	no	
47.	Bearing Rtd's		
48.	Bearing Rtd's Condition		
49.	Contamination		
	<i>Yes, water.</i>		
	50.	Frame Condition	(P) Pass
51.	Fan Condition		
52.	Broken or missing components		
	<i>None</i>		
Initial Electric Test			
53.	Resistance to Ground		
54.	Winding Resistance 1-2	Ohm	

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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
60.	Stator Condition	pass
61.	Failure Location	cord cap
<b>Initial Rotor Inspection</b>		
62.	Rotor Type	squirrel cage
		P2
63.	Air Gap <10% Variation	
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	FAG/Koyo
69.	Bearing DE Size	6307
70.	Bearing DE Type	ball bearing
71.	DE Bearing Qty.	1
72.	Bearing ODE Size	6303
73.	Bearing ODE Type	ball bearing
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	(NA) Not Applicable
81.	DE Seal Type/Size	
82.	ODE Seal	
83.	ODE Seal Type/Size	
<b>Root Cause of Failure</b>		
84.	Component Failure	Cord failure
85.	Cause of Failure	<i>Insulation on lead in cord cap worn, and grounded against the frame.</i>
86.	Comments	

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### Machine Fit Inspection Report

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

1.3782

1.3783

1.3782

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

0.6693

0.6693

0.6693

96. ODE Final Shaft Bearing Fit Size

Measure 1

Measure 2

Measure 3

97. DE Air Seal Shaft Fit (NA) Not Applicable

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

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	(P) Pass	
116.	Service Technician	Terrence Holland	
			
<b>Balancing Report</b>			
117.	Balance Type		
118.	Balance Operating Speed	RPM	
119.	Start Left End	Mills	
120.	Start Right End	Mills	
121.	Balancing Specification		
122.	Finish Left End	Mills	
123.	Finish Right End	Mills	
124.	Service Technician		
<b>Assembly and Final Test</b>			
			
125.	Rotor and Impeller Balanced		
● 126.	Stator Housing Refilled with Oil (if required)	(Y) Yes	
● 127.	Stator Pressure Test	(P) Pass	
	15 psi		
● 128.	Seal Cavity Pressure Test	(P) Pass	P35
			

129. Time Under Pressure	20 min		
130. Overload Continuity	(P) Pass		
131. Water Sensor Open?	(Y) Yes		
132. Meggar Testing Reading	600 Mohm		
133. Surge Test			
134. Hi-Pot	Ua		
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	Degrees F.		
142. Temp at 5 minutes	Degrees F.		
143. Temp at 10 minutes	Degrees F.		
144. Temp at 15 minutes	Degrees F.		
145. Temp at 20 minutes	Degrees F.		
146. Temp at 25 minutes	Degrees F.		
147. Temp at 30 minutes	Degrees F.		
148. Temp at 35 minutes	Degrees F.		
149. Temp at 40 minutes	Degrees F.		
150. Temp at 45 minutes	Degrees F.		
151. Temp at 50 minutes	Degrees F.		
152. Temp at 55 minutes	Degrees F.		
153. Temp at 60 minutes	Degrees F.		
154. Motor Paint	(P) Pass		
155. Service Technician	Terrence Holland		P142
