

Submersible Pump Repair Report MOUNTAIN VIEW WASTE WATER

340 WESTWOOD **MOUNTAIN VIEW, AR 72560**

FolderID: 103167 FormID: 20843695

Submersible Pump Repair Report				
Location:	MOTOR SHOP LR			
Serial Number:	G32737			
Description:5HP SUBMERSIBLE P	HYDROMATIC 1800RPM PUMP			

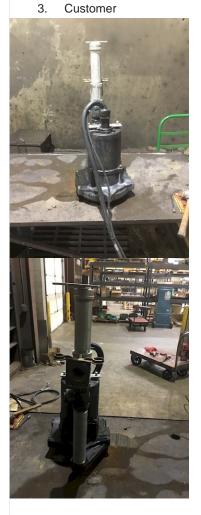
Make:	HYDROMATIC
HP:	5 (HP)
Model:	HPGF500M2-4
Serial:	G32737
V:	230 (V)
A:	29.5 (A)
RPM:	1750 (RPM)
Hz:	60 (Hz)
Phase:	1

Priorities Found: 2 - High



31 - Good

Gener	al			Ō
1.	Job Number			
2.	Report Date			
3.	Customer		Mountain View WW	P27





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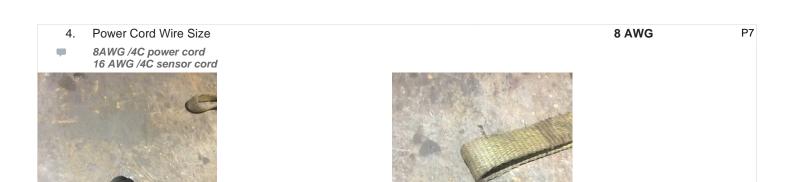






Initial Pump Inspection

0



SIESSES.			
5.	Power Cord # of Conductors	4	
-	White power- # 1&5 Black power - #4 Red power - #8		
6.	Power Cord Length	25 ft	
7.	Power Cord Condtion	(P) Pass	
8.	Sensor Cord Wire Size	16 AWG	
-	Black - #P1 White - P2 Red - sensor		
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





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16.	Number of Wear Rings	1
17.	Wear Ring Condition	(P) Pass
18.	Wear Ring Size	
19.	Wear Ring Clearance to Impeller	in
-	Pass	
20.	Pass Wear Ring Material	
		(P) Pass



23. Number of Seals 2 P105





Mechanical

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	0.4	Ocal Material on Datam Face	-1-	
	24.	Seal Material on Rotary Face	sic	
	25.	Seal Material on Stationary Seat	sic	
	26.	Elastic Component Material	Viton	
	27.	Seal OD Both seals identical	1.8625 in	
-	00	Seal ID	4.005 !:	
	28.	Seal Sleeve Material	1.285 in	
	29.		(D) Door	
	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	
ni		nspection		0
	34.	Number of Leads	4	
	35.	Lead Length	8 Inches	
	36. 37.	Lead Size Lead Condition	(F) Fail	P4
	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	no no	
	48.	Bearing Rtd's Condition		
	49.	Contamination		
	49.	Yes, water.		
	50.	Frame Condition	(D) Page	
)	51.	Fan Condition	(P) Pass	
	52.	Broken or missing components None		
lee "	4:-! -			
1111	52	Electric Test Resistance to Ground		

53.

54.

Resistance to Ground

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
	60.	Stator Condition	pass
	61.	Failure Location	cord cap
In	itial F	Rotor Inspection	ō
	62.	Rotor Type	squirrel cage
	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
M		nical Inspection	(1)1 433
IVI	68.		EAG/Kovo
		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	
R	oot C	ause of Failure	
	84.	Component Failure	Cord failure
	85.	Cause of Failure	

Insulation on lead in cord cap worn, and grounded against the frame.

86. Comments

	87.	Service Technician		Terrence Holland
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	/_	~//U		
1			7	
M	achir	ne 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.			
		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		(NA) NOT Applicable
	30.	Initial	Final	
		IIIIIai	Tillai	
	99.	ODE Air Seal Shaft Fit		
		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	

(P) Pass

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		(NA) Not Applicable	
114.	Foot Condition		(NA) Not Applicable	
115.	Flange Condition		(P) Pass	
	Service Technician		Terrence Holland	



Balancing Report				
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				
Assembly and Final Test	Ō			
125. Rotor and Impeller Balanced				
* 100 O. () II . (D. ()) I . () O. () ()	00.1/			

	Assem	bly and Final Test	0	
	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	
	Overload Continuity		(P) Pass	
	Water Sensor Open?		(Y) Yes	
	Meggar Testing Reading		600 Mohm	
	Surge Test			
	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	
	Ambient Temp at start of Test Ru	ın	Degrees F.	
	Temp at 5 minutes		Degrees F.	
	Temp at 10 minutes		Degrees F.	
	Temp at 15 minutes		Degrees F.	
	Temp at 20 minutes		Degrees F.	
	Temp at 25 minutes		Degrees F.	
	Temp at 30 minutes		Degrees F.	
	Temp at 35 minutes		Degrees F.	
	Temp at 40 minutes		Degrees F.	
	Temp at 45 minutes		Degrees F.	
	Temp at 50 minutes		Degrees F.	
152.	•		Degrees F.	
	Temp at 60 minutes		Degrees F.	
	Motor Paint		(P) Pass	P142
155.	Service Technician		Terrence Holland	P142
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	/	XL 1)		
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