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Submersible Pump Repair Report MOUNTAIN VIEW WASTE WATER

340 WESTWOOD **MOUNTAIN VIEW, AR 72560**

Submersible Pump Repair Report	Make:	Yeoman	
Location: MOTOR SHOP LR	Model:	10/18/24-103421	
Serial Number: 9811014-B	Serial:	9811014-B	
Description:YEOMENS PUMP EVAL	V:	460 (V)	
	A:	19.9 (A)	
	RPM:	1747 (RPM)	
	Hz:	60 (Hz)	
	Phase:	3	
	Service Factor:	1.15	

Priorities Found: **5 - High**

36 - Good

- General
 - 1. Job Number
 - 2. **Report Date**
 - 3. Customer

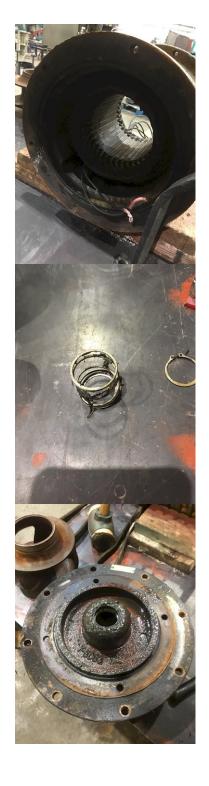
















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Initia	Pump Inspection		0
4.	Power Cord Wire Size	12 AWG	
5.	Power Cord # of Conductors	4	
6.	Power Cord Length	33 ft	
• 7.	Power Cord Condtion	(P) Pass	
8.	Sensor Cord Wire Size	14 AWG	
9.	Sensor Cord # of Conductors	4	
10	. Sensor Cord Length	35 ft	
• 11	. Sensor Cord Condition	(F) Fail	P60



12. Sensor Cord for Thermal Protection?

	13.	Sensor Cord for Water Protection	(Y) Yes
	14.	Bowl Condition	(P) Pass
	15.	Impeller Condition	(P) Pass
	16.	Number of Wear Rings	1
	17.	Wear Ring Condition	(P) Pass
	18.	Wear Ring Size	5 in
	19.	Wear Ring Clearance to Impeller	in
	20.	Wear Ring Material	stainless
	21.	Seal Surfaces Condition	(P) Pass
	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	Viton
	20.	Seal OD	mm
	27.	70mm	
	-	64mm	
	28.	Seal ID	in
		50mm	
	~ -	43.50mm	
	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?	(N) No
In	itial I	nspection	
	34.	Number of Leads	3
	35.	Lead Length	24 Inches
	36.	Lead Size	14
	37.	Lead Condition	(NA) Not Applicable
	Ψ	Rewind	
	38.	Lead Markings	1-3
	39.	Lead Size for Oil Filled Stator	AWG
	40.	Lug Size, Condition, and Type	
	41.	Overload Required?	(Y) Yes
	-	Over loads are good	
	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	,
	47.	Bearing Rtd's	(NA) Not Applicable
	48.	Bearing Rtd's Condition	(NA) Not Applicable
-	49.	Contamination	
	-13.	Water	
	50.	Frame Condition	(P) Pass
	51.	Fan Condition	(NA) Not Applicable

52.	Broken or missing components		
	Gromit is broke		
Initial E	Electric Test		0
53.	Resistance to Ground	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	(F) Fail	P5
60.	Stator Condition	rewind	
61.	Failure Location		
Initial F	Rotor Inspection		
62.	Rotor Type	squirrel cage aluminum	
63.	Air Gap <10% Variation	(NA) Not Applicable	
64.	Number of Rotor Bars		
65.	Number of Broken Rotor Bars		
66.	Growler Test	(P) Pass	
67.	Rotor Condition	(P) Pass	
Mecha	nical Inspection		0
68.	Bearing Manufacturer	na	
69.	Bearing DE Size	6311-2RS	P1
	Contamination and frosting		

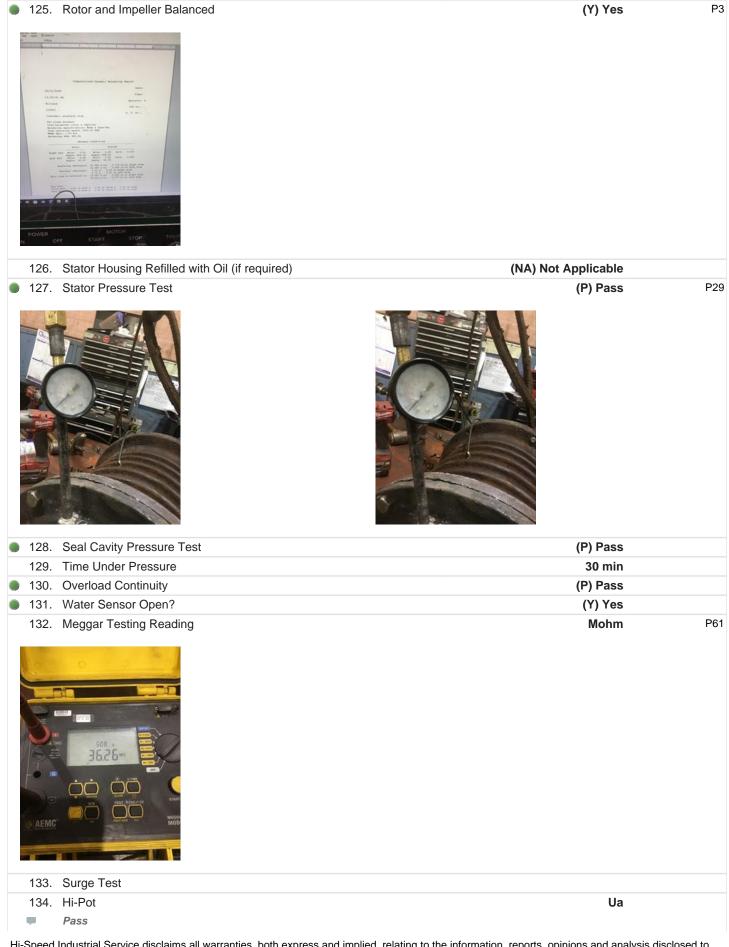




70.	Bearing DE Type	sealed bearing	
71.	DE Bearing Qty.	1	
72.	Bearing ODE Size	5305	P4
	Contamination and frosting		
6	KLEIN TONLS		
73.	Bearing ODE Type	double roll double ball	
73.	ODE Bearing Qty.		
74.	Insulated Bearing	q	
75. 76.	Lubrication Type	grease	
70.	Grease Condition	(F) Fail	
78.	Bearing Retainers	(NA) Not Applicable	
79.	Shaft Grounding Device	(NA) Not Applicable	
80.	DE Seal	(Y) Yes	
	Mechanical seal failed	(1) 163	
81.	DE Seal Type/Size		
•	Mechanical seal		
82.	ODE Seal	(NA) Not Applicable	
83.	ODE Seal Type/Size		
	Cause of Failure		
		hearings windings and seels	
85.	Component Failure Cause of Failure	bearings, windings, and seals	
00.	Water contamination and seals failed		
86.			
00.	Recommend new o'rings, new seals, new bearing	and rowind	
07		-	
87.	Addin	Cw	
•	Conn side 2.25 ode2.25winding 3#14Hi Temp Leads 1 Overload		
Machir	ne Fit Inspection Report		
88.	Shaft Run Out	(P) Pass	
89.	Initial Shaft Run Out	Π	
90.	Final Shaft Run Out	н	

	<u> </u>			
	91.	v		(P) Pass
	92.	DE Initial Shaft Bearing Fit Size		
		Measure 1	Measure 2	Measure 3
		2.1659	2.1658	2.1659
	93.	Ũ		
		Measure 1	Measure 2	Measure 3
		ODE Bearing Shaft Fit		(P) Pass
	95.	ODE Initial Shaft Bearing Fit Size		
		Measure 1	Measure 2	Measure 3
		0.9841	0.984	0.9841
	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		(NA) Not Applicable
	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
		4.7249	4.7248	4.7249
	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	
	107.	ODE Endbell Fit		(P) Pass
-		ODE Initial Endbell Fit Size		
	-	Measure 1	Measure 2	Measure 3
		2.4416	2.4416	2.4417
	109.	ODE Final Endbell Fit Size		
	-	Measure 1	Measure 2	Measure 3
	110.	ODE Endbell Fit Insulated		(NA) Not Applicable
		ODE Endbell Air Seal Fit		(NA) Not Applicable
-		ODE Endbell Air Seal Fit Size		(,
		Initial	Final	
		maa	i indi	
	112	Foot Flatness		(NA) Not Applicable
_		Foot Condition		(NA) Not Applicable
	114.			(NA) NOT Applicable

115. Flange Condition	(P) Pass	
116. Service Technician	Cw	
Co sign: RRW		
Balancing Report	0	
117. Balance Type	two plane	
Name Name Name Name		
118. Balance Operating Speed	1800 RPM	
119. Start Left End	0.95 Mills	
120. Start Right End	0.81000000000001 Mills	
121. Balancing Specification	nema & dyna balance spec 1.5 mills	
122. Finish Left End	0.85 Mills	
123. Finish Right End	0.68999999999999999999999999999999999999	
124. Service Technician	Terrence Holland	
Assembly and Final Test	0	



135. Winding Resistance 1-2 2-3 3-1 136. Test Run (P) Pass 137. Test Run Voltage Phase A Phase B Phase A Phase B Phase C Image: State Stat	P95
136. Test Run (P) Pass 137. Test Run Voltage Phase A Phase A Phase B Phase S Phase C Image: State of the state of th	
137. Test Run Voltage Phase A Phase B Phase C Image: Constraint of the state of the	
137. Test Run Voltage Phase A Phase B Phase C Image: Constraint of the state of the	
Phase APhase BPhase CImage: Descent of the section of the s	
138. Test Run Current Phase B Phase C 7.7 7.5 7.6	P99
138. Test Run Current Phase B Phase C 7.7 7.5 7.6	P99
Phase A Phase B Phase C 7.7 7.5 7.6	P99
7.7 7.5 7.6	
139. DE Vibration Reading	
Horizontal Vertical Axial	
Unable to because of bottom seal not immersed in fluid	
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 minutesDegrees F.	
145. Temp at 20 minutesDegrees F.	
146. Temp at 25 minutesDegrees F.	

147. Te	emp at 30 minutes	Degrees F.
148. Te	emp at 35 minutes	Degrees F.
149. Te	emp at 40 minutes	Degrees F.
150. Te	emp at 45 minutes	Degrees F.
151. Te	emp at 50 minutes	Degrees F.
152. Te	emp at 55 minutes	Degrees F.
153. Te	emp at 60 minutes	Degrees F.
154. M	lotor Paint	P141







155. Service Technician

Terrence Holland





