Hi-Speed Industrial Service
7030 Ryburn Dr
Millington, Tn 38053
901-873-5300

Submersible Pump Repair Report

Georg Fischer Sloane (10754-GFS)
7777 Sloane Drive
Little Rock, AR 72206

FolderID: 104780
FormID: 24865415

Submersible Pump Repair Report

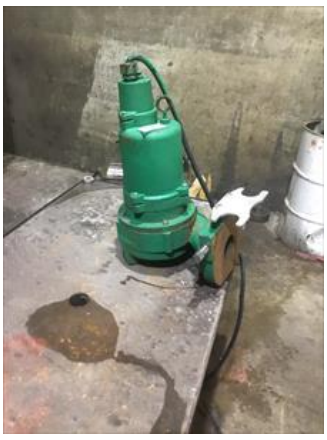
Location:	MOTOR SHOP LR
Serial Number:	10690149
Description:	3 HP PENTAIR SUBMERSIBLE PUMP

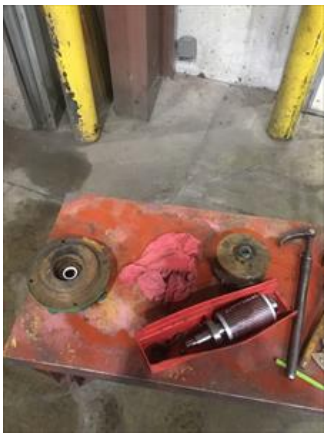
Make:	PENTAIR
HP:	3 (HP)
Model:	3WHU30M4-P3
Serial:	10690149
V:	460 (V)
A:	12 (A)
RPM:	1750 (RPM)
Hz:	60 (Hz)
Phase:	3

Priorities Found: **2 - High** **28 - Good**

General

1.	Job Number	**104780**	
2.	Report Date	**07/23/2025**	
3.	Customer	**Fischer**	P27





Initial Pump Inspection

4.	Power Cord Wire Size	**14 AWG**	P7

5.	Power Cord # of Conductors	**4**	
6.	Power Cord Length	**30 ft**	
7.	Power Cord Condtion	**(F) Fail**	P37

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		

●	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	**in**	
●	19.	Wear Ring Clearance to Impeller	**in**	
	20.	Wear Ring Material		
●	21.	Seal Surfaces Condition	**(P) Pass**	
	22.	Seal Type	**Mechanical**	
	23.	Number of Seals	**1**	
	24.	Seal Material on Rotary Face	**carbon**	
	25.	Seal Material on Stationary Seat	**ceramic**	P109

	26.	Elastic Component Material	**Buna**	
	27.	Seal OD	**1 mm**	
	28.	Seal ID		
	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	**6 Inches**	
	36.	Lead Size		
●	37.	Lead Condition	**(P) Pass**	

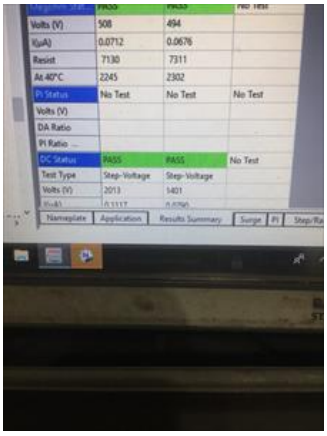
	38.	Lead Markings	**1-9**	P48

	39.	Lead Size for Oil Filled Stator	**AWG**	
	40.	Lug Size, Condition, and Type		
●	41.	Overload Required?	**(N) No**	
	42.	Winding RTD's		
	43.	Winding Rtd's Condition		
	44.	Shaft Run Out	**0.001**	
	45.	Does Shaft Turn Freely	**no**	
	46.	Does Shaft Have Visible Damage	**no**	P94

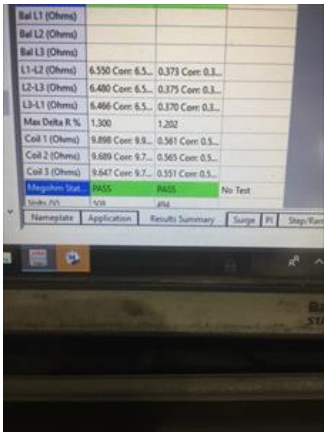
	47.	Bearing Rtd's		
	48.	Bearing Rtd's Condition		
	49.	Contamination ***None***		
●	50.	Frame Condition	**(P) Pass**	
●	51.	Fan Condition	**(NA) Not Applicable**	
	52.	Broken or missing components ***Power cord cut from impeller.*** ***Seal Ned's to be replaced***		

Initial Electric Test

53. Resistance to Ground **Mohm** P5



54. Winding Resistance 1-2 **Ohm** P14



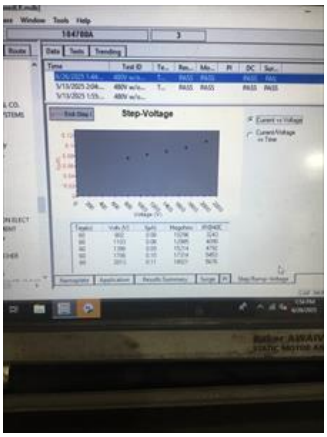
55. Winding Resistance 2-3 **Ohm's**

See item 54

56. Winding Resistance 1-3 **Ohm's**

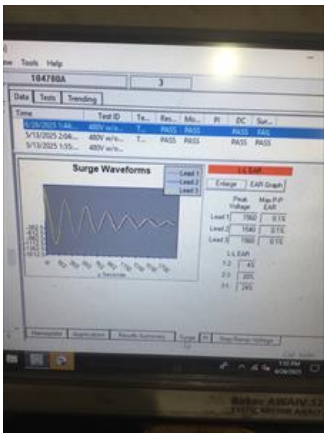
See item 54

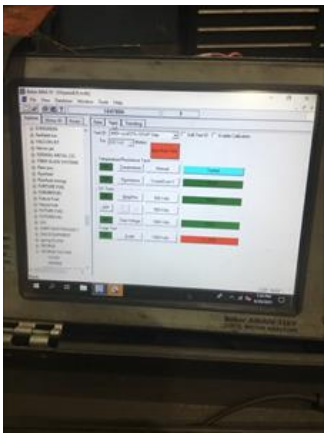
57. Resistive Imbalance **%** P43



58. Hi-Pot **Ua**

59. Surge Test P56





60.	Stator Condition	**pass**	
61.	Failure Location	**power cord**	

Initial Rotor Inspection

62.	Rotor Type	**squirrel cage aluminum**	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**	

Mechanical Inspection

68.	Bearing Manufacturer	**SKF**	P9

	69.	Bearing DE Size	**6307/C3**	P18

	70.	Bearing DE Type	**open ball bearing**	
	71.	DE Bearing Qty.	**1**	
	72.	Bearing ODE Size	**6204/C3**	P42

	73.	Bearing ODE Type	**ball bearing**	
	74.	ODE Bearing Qty.	**1**	
	75.	Insulated Bearing		
	76.	Lubrication Type	**oil**	
	77.	Grease Condition		
	78.	Bearing Retainers		
	79.	Shaft Grounding Device		
●	80.	DE Seal	**(Y) Yes**	P81

O.D. 1.8790

81.	DE Seal Type/Size	**mechanical #D-1250-352**	P84
	Carbon ceramic		

82.	ODE Seal	
83.	ODE Seal Type/Size	

Root Cause of Failure

84.	Component Failure	**power cord**
85.	Cause of Failure	
	Power cord was entangled in the impeller.	
86.	Comments	
	Power cord was entangled in the pump impeller	
87.	Service Technician	**Terrence Holland**

Machine Fit Inspection Report

88.	Shaft Run Out	**(P) Pass**
89.	Initial Shaft Run Out	**0.001 "**
90.	Final Shaft Run Out	**"**
	Same as above	
91.	DE Bearing Shaft Fit	**(P) Pass**

	92.	DE Initial Shaft Bearing Fit Size		
		Measure 1	Measure 2	Measure 3
		1.3784	**1.3785**	**1.3784**
	93.	DE Final Shaft Bearing Fit Size		
		Measure 1	Measure 2	Measure 3
		See above		
●	94.	ODE Bearing Shaft Fit		**(P) Pass**
	95.	ODE Initial Shaft Bearing Fit Size		
		Measure 1	Measure 2	Measure 3
		0.7874	**0.07874**	**0.07874**
	96.	ODE Final Shaft Bearing Fit Size		
		Measure 1	Measure 2	Measure 3
		See above		
●	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		**(P) Pass**
	102.	DE Initial Endbell Fit Size		
		Measure 1	Measure 2	Measure 3
		3.15	**3.1502**	**3.1501**
	103.	DE Final Endbell Fit Size		
		Measure 1	Measure 2	Measure 3
		Same as above		
	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
		2.4412	**2.4413**	**2.4413**
	109.	ODE Final Endbell Fit Size		
		Measure 1	Measure 2	Measure 3
		Same as above		
●	110.	ODE Endbell Fit Insulated		**(N) No**
	111.	ODE Endbell Air Seal Fit		

112.	ODE Endbell Air Seal Fit Size		
	Initial	Final	
113.	Foot Flatness	**(P) Pass**	
114.	Foot Condition	**(P) Pass**	
115.	Flange Condition	**(NA) Not Applicable**	
116.	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

125.	Rotor and Impeller Balanced		
126.	Stator Housing Refilled with Oil (if required)	**(Y) Yes**	
127.	Stator Pressure Test	**(P) Pass**	P29

128.	Seal Cavity Pressure Test		P35

After 7 minutes

129.	Time Under Pressure	**7 min**	
130.	Overload Continuity	**(N) NA**	
131.	Water Sensor Open?		
132.	Meggar Testing Reading	**Mohm**	P61

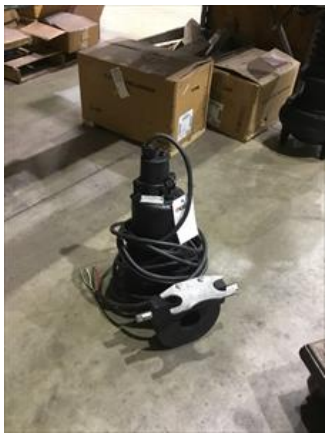
133.	Surge Test	**(P) Pass**	
134.	Hi-Pot	**Ua**	
135.	Winding Resistance		

1-2	2-3	3-1

136.	Test Run		P90

7 min. No leaks.

Finale run



137. Test Run Voltage			P95
Phase A	Phase B	Phase C	
458	**454**	**460**	

138. Test Run Current		
Phase A	Phase B	Phase C
1.7	**1.5**	**1.4**

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			P141

155. Service Technician

Co sign: CW