

# EVERY DAY SINCE 1946

LR Motor Shop Repairs

## Job Number 103796

Prepared for Arkansas Department of Correction (12097)

2540 Hwy 388 Gould AR 71643

### Table of Contents

Submersible Pump Repair Report - LITTLE ROCK MOTOR SHOP

Submersible Pump Repair Report: 53.095-0189



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

> FolderID: 103796 FormID: 22351200

### Submersible Pump Repair Report Arkansas Department of Correction (12097)

2540 Hwy 388

Gould, AR 71643

Submersible P	ump Repair Report	Make:	FLYGT
Location:	LITTLE ROCK MOTOR SHOP	HP:	20 (HP)
		Model:	153.095-1830032
Serial Number: 53.095-0189 Description:20HP FLYGT PUMP 1755RPM		Serial:	53.095-0189
		V:	230 (V)
		A:	26 (A)
		RPM:	1755 (RPM)
		Hz:	60 (Hz)

Phase:

#### Priorities Found: **5 - High**

29 - Good

#### General

1. Job Number







3



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103796













2.	Report Date	12/03/2024
3.	Customer	ADC
Initial	Pump Inspection	

#### 4. Power Cord Wire Size



5.	Power Cord # of Conductors	4
6.	Power Cord Length	32 ft
7.	Power Cord Condtion	(F) Fail

Cord needs to be replaced



8.	Sensor Cord Wire Size	18 AWG
9.	Sensor Cord # of Conductors	4
10.	Sensor Cord Length	32 ft
• 11.	Sensor Cord Condition	(F) Fail
12.	Sensor Cord for Thermal Protection?	(NA) Not Applicable
13.	Sensor Cord for Water Protection	(NA) Not Applicable
14.	Bowl Condition	(P) Pass
15.	Impeller Condition	(P) Pass
16.	Number of Wear Rings	2
17.	Wear Ring Condition	(P) Pass
18.	Wear Ring Size	in
	Na	
19.	Wear Ring Clearance to Impeller	in
	Na	
20.	Wear Ring Material	
	Na	
21.	Seal Surfaces Condition	(F) Fail

	22	0 I.F.	
	ZZ.	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	Buna
	27.	Seal OD	2.5 mm
	28.	Seal ID	1.75 in
	29.	Seal Sleeve Material	
	<b>.</b>	Na	
	30.	Seal Plate Condition	(P) Pass
	31.	Water Sensor in Seal Cavity?	(Y) Yes
	32.	Oil Filled Seal Cavity?	(Y) Yes
)		Oil Filled Stator?	(Y) Yes
Ini		Inspection	(.)
		Number of Leads	12
		Lead Length	24 Inches
		Lead Size	12
		Lead Condition	(P) Pass
1		Lead Markings	(F) Fass 1-12
		Lead Size for Oil Filled Stator	AWG
	39.	Na	AWG
		Lug Size, Condition, and Type Na	
	41.	Overload Required?	(Y) Yes
	42.	Winding RTD's	(NA) Not Applicable
	43.	Winding Rtd's Condition	(NA) Not Applicable
	44.	Shaft Run Out	
		Na	
	45.	Does Shaft Turn Freely	no
	46.	Does Shaft Have Visible Damage	no
	47.	Bearing Rtd's	(NA) Not Applicable
	48.	Bearing Rtd's Condition	(NA) Not Applicable
	49.	Contamination	
		Water and metal shavings	
	50.	Frame Condition	(P) Pass
	51.	Fan Condition	(NA) Not Applicable
	52.	Broken or missing components	
		Na	
n	itial	Electric Test	
	53.	Resistance to Ground	7378 Mohm
	54.	Winding Resistance 1-2	Ohm
	•	Na	
	55.	Winding Resistance 2-3	Ohm's
		Na	
	-		

	57. •	Resistive Imbalance Na	%	
	58.	Hi-Pot	0.0779 Ua	
۲	59.	Surge Test	(P) Pass	



#### 60. Stator Condition



	61.	Failure Location	
	•	Na	
In	itial	Rotor Inspection	
	62.	Rotor Type	aluminum
	63.	Air Gap <10% Variation	(NA) Not Applicable
	64.	Number of Rotor Bars	30
	65.	Number of Broken Rotor Bars	0
	66.	Growler Test	(P) Pass

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wash and dry

NTN

63309 DWSR



#### **Mechanical Inspection**

68. Bearing Manufacturer

69. Bearing DE Size



Catastrophic failure

70. Bearing DE Type	BALL
71. DE Bearing Qty.	1
72. Bearing ODE Size	6306





Fatigue

_				
/	73.	Bearing ODE Type		ball
7	74.	ODE Bearing Qty.		1
7	75.	Insulated Bearing		no
7	76.	Lubrication Type		oil
7	77.	Grease Condition		(NA) Not Applicable
7	78.	Bearing Retainers		(N) No
7	79.	Shaft Grounding Device		(NA) Not Applicable
8	30.	DE Seal		(Y) Yes
8	31.	DE Seal Type/Size		na
8	32.	ODE Seal		(N) No
8	33.	ODE Seal Type/Size		na
Ro	ot C	Cause of Failure		
8	34.	Component Failure		bearing and seal
8	35.	Cause of Failure		
		Bearing housing egged shape cause th the pump up. Had water in the lower ho	e outer race to fail and breaking down the b using	bearing taking out the lower seal locking
۶	36.	Comments		
, c				
	27	Shaft repair and bearing housing repair	and new seals ,pump power cord	PW/
	87. /	Shaft repair and bearing housing repair Service Technician	and new seals ,pump power cord	RW
8	/		and new seals ,pump power cord	RW
8 Ma	/	Service Technician	and new seals ,pump power cord	RW (NA) Not Applicable
8 Ma	<b>chi</b> 38.	Service Technician	and new seals ,pump power cord	
8 Ma	<b>chi</b> 38. 39.	Service Technician ne Fit Inspection Report Shaft Run Out	and new seals ,pump power cord	(NA) Not Applicable
8 Ma 8 8	<b>chi</b> 38. 39.	Service Technician ne Fit Inspection Report Shaft Run Out Initial Shaft Run Out	and new seals ,pump power cord	(NA) Not Applicable
8 Ma 8	<b>chi</b> 38. 39.	Service Technician ne Fit Inspection Report Shaft Run Out Initial Shaft Run Out Na	and new seals ,pump power cord	(NA) Not Applicable
8 Ma 8 8 9	<b>chi</b> 388. 399.	Service Technician Provide Techn	and new seals ,pump power cord	(NA) Not Applicable
8 Ma 8 8 9 9	<b>chi</b> 38. 39.	Service Technician ne Fit Inspection Report Shaft Run Out Initial Shaft Run Out Na Final Shaft Run Out Na	and new seals ,pump power cord	(NA) Not Applicable "
8 <b>Ma</b> 8 8 9 9	<b>chi</b> 38. 39.	Service Technician <b>ne Fit Inspection Report</b> Shaft Run Out Initial Shaft Run Out <i>Na</i> Final Shaft Run Out <i>Na</i> DE Bearing Shaft Fit	and new seals ,pump power cord	(NA) Not Applicable "
8 Ma 8 8 9 9 9	<b>chi</b> 38. 39.	Service Technician Service Technician <b>ne Fit Inspection Report</b> Shaft Run Out Initial Shaft Run Out Na Final Shaft Run Out Na DE Bearing Shaft Fit DE Initial Shaft Bearing Fit Size		(NA) Not Applicable " " (F) Fail



93.	DE Final Shaft Bearing Fit Size			
	Measure 1	Measure 2	Measure 3	
94.	ODE Bearing Shaft Fit		(P) Pas	s
95.	ODE Initial Shaft Bearing Fit Size			
	Measure 1	Measure 2	Measure 3	
	1.1813	1.1813	1.1813	
96.	ODE Final Shaft Bearing Fit Size			
	Measure 1	Measure 2	Measure 3	
~ -				

97. DE Air Seal Shaft Fit

Needs repair



98	3. DE Air Seal Shaft Size		
	Initial	Final	
99	<ol> <li>ODE Air Seal Shaft Fit</li> </ol>		(NA) Not Applicable
10	0. ODE Air Seal Shaft Size		
	Initial	Final	
• 10	1. DE Endbell Fit		(F) Fail

102	DE Initial Endbell Fit Size		
102.	Measure 1	Measure 2	Measure 3
	Measure	measure 2	Meddule 5
	Needs replacing egg shaped		
10000			
	State State		
23	and the second		
1			
5			
and the			
State of			
	· .		
103.	DE Final Endbell Fit Size		
	Measure 1	Measure 2	Measure 3
	DE Endbell Fit Insulated		(NA) Not Applicable
	DE Endbell Air Seal Fit		(NA) Not Applicable
106.	DE Endbell Air Seal Fit Size		
	Initial	Final	
	Na		
	<i>Na</i> ODE Endbell Fit		(P) Pass
<ul><li>107.</li></ul>			(P) Pass
<ul><li>107.</li></ul>	ODE Endbell Fit	Measure 2	(P) Pass Measure 3
<ul><li>107.</li></ul>	ODE Endbell Fit ODE Initial Endbell Fit Size	Measure 2 2.8351	
<ul> <li>107.</li> <li>108.</li> </ul>	ODE Endbell Fit ODE Initial Endbell Fit Size Measure 1		Measure 3
<ul> <li>107.</li> <li>108.</li> </ul>	ODE Endbell Fit ODE Initial Endbell Fit Size Measure 1 2.8351		Measure 3
<ul> <li>107.</li> <li>108.</li> <li>109.</li> </ul>	ODE Endbell Fit ODE Initial Endbell Fit Size Measure 1 <b>2.8351</b> ODE Final Endbell Fit Size Measure 1	2.8351	Measure 3 2.8351
<ul> <li>107.</li> <li>108.</li> <li>109.</li> <li>110.</li> </ul>	ODE Endbell Fit ODE Initial Endbell Fit Size Measure 1 2.8351 ODE Final Endbell Fit Size Measure 1 ODE Endbell Fit Insulated	2.8351	Measure 3 2.8351
<ul> <li>107.</li> <li>108.</li> <li>109.</li> <li>110.</li> <li>111.</li> </ul>	ODE Endbell Fit ODE Initial Endbell Fit Size Measure 1 2.8351 ODE Final Endbell Fit Size Measure 1 ODE Endbell Fit Insulated ODE Endbell Air Seal Fit	2.8351	Measure 3 2.8351
<ul> <li>107.</li> <li>108.</li> <li>109.</li> <li>110.</li> <li>111.</li> </ul>	ODE Endbell Fit ODE Initial Endbell Fit Size Measure 1 2.8351 ODE Final Endbell Fit Size Measure 1 ODE Endbell Fit Insulated ODE Endbell Air Seal Fit ODE Endbell Air Seal Fit Size	2.8351 Measure 2	Measure 3 2.8351
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<ul> <li>107.</li> <li>108.</li> <li>109.</li> <li>110.</li> <li>111.</li> <li>112.</li> <li>113.</li> <li>114.</li> <li>115.</li> </ul>	ODE Endbell Fit ODE Initial Endbell Fit Size Measure 1 2.8351 ODE Final Endbell Fit Size Measure 1 ODE Endbell Fit Insulated ODE Endbell Air Seal Fit ODE Endbell Air Seal Fit ODE Endbell Air Seal Fit Size Initial Foot Flatness Foot Condition	2.8351 Measure 2	Measure 3 2.8351 Measure 3 (NA) Not Applicable (NA) Not Applicable
<ul> <li>107.</li> <li>108.</li> <li>109.</li> <li>110.</li> <li>111.</li> <li>112.</li> <li>113.</li> <li>114.</li> <li>115.</li> </ul>	ODE Endbell Fit ODE Initial Endbell Fit Size Measure 1 2.8351 ODE Final Endbell Fit Size Measure 1 ODE Endbell Fit Insulated ODE Endbell Air Seal Fit ODE Endbell Air Seal Fit ODE Endbell Air Seal Fit Size Initial Foot Flatness Foot Condition	2.8351 Measure 2	Measure 3 2.8351 Measure 3 (NA) Not Applicable (NA) Not Applicable (NA) Not Applicable (P) Pass
<ul> <li>107.</li> <li>108.</li> <li>109.</li> <li>110.</li> <li>111.</li> <li>112.</li> <li>113.</li> <li>114.</li> <li>115.</li> </ul>	ODE Endbell Fit ODE Initial Endbell Fit Size Measure 1 2.8351 ODE Final Endbell Fit Size Measure 1 ODE Endbell Fit Insulated ODE Endbell Air Seal Fit ODE Endbell Air Seal Fit ODE Endbell Air Seal Fit Size Initial Foot Flatness Foot Condition	2.8351 Measure 2	Measure 3 2.8351 Measure 3 (NA) Not Applicable (NA) Not Applicable (NA) Not Applicable (P) Pass
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<ul> <li>107.</li> <li>108.</li> <li>109.</li> <li>110.</li> <li>111.</li> <li>1112.</li> <li>113.</li> <li>1114.</li> <li>115.</li> </ul>	ODE Endbell Fit ODE Initial Endbell Fit Size Measure 1 2.8351 ODE Final Endbell Fit Size Measure 1 ODE Endbell Fit Insulated ODE Endbell Air Seal Fit ODE Endbell Air Seal Fit Size Initial Foot Flatness Foot Condition Flange Condition Service Technician	2.8351 Measure 2	Measure 3 2.8351 Measure 3 (NA) Not Applicable (NA) Not Applicable (NA) Not Applicable (P) Pass
<ul> <li>107.</li> <li>108.</li> <li>109.</li> <li>110.</li> <li>111.</li> <li>112.</li> <li>113.</li> <li>114.</li> <li>115.</li> <li>116.</li> </ul>	ODE Endbell Fit ODE Initial Endbell Fit Size Measure 1 2.8351 ODE Final Endbell Fit Size Measure 1 ODE Endbell Fit Insulated ODE Endbell Air Seal Fit ODE Endbell Air Seal Fit ODE Endbell Air Seal Fit Size Initial Foot Flatness Foot Condition	2.8351 Measure 2	Measure 3 2.8351 Measure 3 (NA) Not Applicable (NA) Not Applicable (NA) Not Applicable (P) Pass

117	Balance Type			
	Balance Type Relance Operating Speed			
	Balance Operating Speed Start Left End			
	Start Left End Start Right End			
	Balancing Specification Finish Left End			
	Finish Right End			
	Service Technician			
Assembly and Final Test				
	Rotor and Impeller Balanced			
	Stator Housing Refilled with Oil (if required)			
	Stator Pressure Test			
128.	Seal Cavity Pressure Test			
	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	
100	<b>T</b> ( <b>D</b>			
	Test Run			
137.	Test Run Voltage Phase A	Phase B	Phase C	
	Phase A	Phase b	Phase C	
138.	Test Run Current			
	Phase A	Phase B	Phase C	
139.	DE Vibration Reading			
	Horizontal	Vertical	Axial	
1.40				
140.	ODE Vibration Reading	Vertical	Asial	
	Horizontal	Vertical	Axial	
141.	Ambient Temp at start of Test Run			
	Temp at 5 minutes			
143.	Temp at 10 minutes			
144.	Temp at 15 minutes			
145.	Temp at 20 minutes			
146.	Temp at 25 minutes			
	Temp at 30 minutes			
	Temp at 35 minutes			
	Temp at 40 minutes			
	Temp at 45 minutes			
	Temp at 50 minutes			
	Temp at 55 minutes Temp at 60 minutes			

154. Motor Paint	
155. Service Technician	



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**TermsAndConditions** 

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- 9. LIMITATION OF DAMAGES. HI-SPEED SHALL HAVE NO LIABILITY TO BUYER WITH RESPECT TO THE SALE OR DELIVERY OF ANY GOODS OR THE REPAIR THEREOF OR WITH RESPECT TO THE SALE OR PERFORMANCE OF ANY SERVICES, FOR LOST PROFITS, SPECIAL, CONSEQUENTIAL, EXEMPLARY, PUNITIVE OR INCIDENTAL DAMAGES OF ANY KIND OR NATURE WHETHER ARISING IN CONTRACT, TORT, GOODS LIABILITY OR OTHERWISE, EVEN IF HI-SPEED WAS ADVISED OF THE POSSIBILITY OF SUCH LOSS OR DAMAGES. HI-SPEED SHALL NOT BE LIABLE FOR ANY DAMAGES OR DELAYS CAUSED BY ANY FAILURE TO MAKE ANY DELIVERY OF GOODS BY ANY EXPECTED TIME OR DATE OR THE FAILURE TO PROVIDE OR COMPLETE ANY SERVICES BY ANY EXPECTED DATE OR TIME. IN NO EVENT SHALL HI-SPEED BE LIABLE TO BUYER FOR ANY DAMAGES WHATSOEVER IN EXCESS OF THE TOTAL PRICE PAID FOR ALL GOODS AND/OR SERVICES HEREUNDER OR REFERENCED IN ANY QUOTATION OR THE PURCHASE ORDER.
- 10. <u>SEVERABILITY</u>. The partial or complete invalidity of any provision of these Standard Terms and Conditions shall not affect the enforceability of the remainder of these Standard Terms and Conditions. If any provision is found to be invalid or unenforceable, that portion shall be modified to make it enforceable or shall be stricken and the remainder of these Standard Terms and Conditions shall enforced.
- 11. <u>GOVERNING LAW AND JURISDICTION.</u> Any controversy arising out of any quotation, the purchase order, the goods sold or delivered, repair or replacement thereof, or any services provided pursuant to any quotation or any purchase order, or these Standard Terms and Conditions shall be governed by the laws of the state of Tennessee without regard to any choice of law provisions and any cause of action related in any manner thereto shall be brought only in the state or federal courts of Shelby County, Tennessee.
- 12. <u>ABANDONED EQUIPMENT.</u> Hi-Speed requires that Buyer promptly pick up or provide shipment instructions for Buyer equipment or other Buyer property in Hi-Speed's possession. If equipment or other Buyer property is left with Hi-Speed and not picked up within six (6) months after Hi-Speed's final action related to the applicable property (e.g. evaluation, teardown, estimate, completion of services), Hi-Speed will consider such property abandoned and may dispose of it in accordance with applicable law. Buyer agrees to hold Hi-Speed harmless for any damage or claim for such abandoned property and acknowledges that Hi-Speed may discard or recycle it at Hi-Speed's sole and absolute discretion. Specifically, Hi-Speed may sell Buyer's abandoned property at a private or public sale and retain the proceeds to offset Hi-Speed's storage, inspection and servicing costs. For the avoidance of doubt, Hi-Speed reserves its statutory and other lawful liens for unpaid charges related to abandoned property.
- 13. FORCE MAJEURE. Neither party shall be responsible for any delay or failure in performance of any party of the quotation, purchase order or these Standard Terms and Conditions to the extent that such delays or failures are caused by fire, flood, earth quake, explosion, war, embargo, government requirement, civil or military authority, acts of God, or any other circumstances beyond its reasonable control and not involving any fault or negligence on the party affected ("Condition"). If any such Condition occurs, the party delayed or unable to perform shall promptly give written notice to the other party and, if such Condition remains at the end of thirty (30) days, the party affected by the other party's delay and inability to perform may elect to (i) terminate such order or part thereof, or (ii) suspend the order for the duration of the Condition, if the Buyer is the suspending party, buy elsewhere comparable material to be sold under the order and apply to any commitment the purchase price of such purchase, and resume performance of the order once the Condition ceases, with an option in the affected party to extend the period of this order up to the length of the time the Condition endures.
- 14. <u>NONWAIVER</u>. No course of dealing or failure of either party to strictly enforce any term, right, or condition of these Standard Terms and Conditions will be construed as a waiver of such term, right or condition. Any waiver by Hi-Speed will only be in writing and will waive no succeeding breach of a term, right or condition.
- 15. <u>ASSIGNMENT.</u> The rights and obligations of the parties shall neither be assigned nor delegated without the prior written consent of the other party. However, any party may assign or delegate its respective rights and obligations, in whole or in part, (i) to any subsidiary, (ii) pursuant to other financing, merger or reorganization or (iii) pursuant to any sale or transfer of substantially all of the assets of the assigning party. These Standard Terms and Conditions shall bind the heirs, successors and assigns of the parties hereto.
- 16. <u>NO INDIVIDUAL LIABILITY</u>. Notwithstanding any other agreement to the contrary, the Buyer agrees that in no event will the Buyer hold and HI-Speed owner, director, officer or employee personally liable for unintentional tortious conduct or conduct that constitutes the breach of any contract between HI-Speed and the Buyer, even if the HI-Speed owner, director, officer or employee is or could be construed to be a party to such contract.