

## EVERY DAY SINCE 1946

LR Motor Shop Repairs

## Job Number 102317

Prepared for Georges Inc

1810 S. St. Louis Street Batesville AR 72501

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Submersible Pump Repair Report - Shop



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

102317

FolderID: 102317 FormID: 18973891

#### Submersible Pump Repair Report

Georges Inc 1810 S. St. Louis Street Batesville, AR 72501

Submersible P	ump Repair Report	HP:	7.5 (HP)	
Location:	Shop	Serial:	C1962403	
Serial Number:	102317	V:	230460 (V)	
Description:SUE	BMERSIBLE PUMP NO NP	RPM:	1750 (RPM)	
		Phase:	3	
Priorities Found: 🦲	11 - Hiah 🛛 🛋 37 - Good			

- General
  - Job Number 1.
  - Report Date 2.







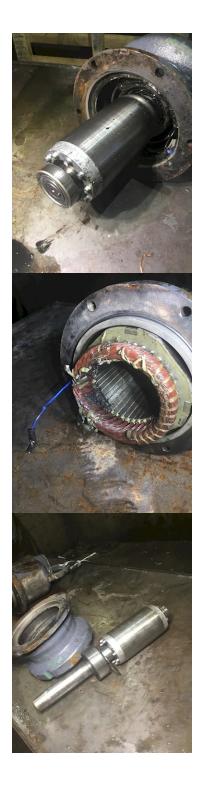


















Machined new bushing. 1.506 Gary

3. Customer



Georges



#### **Initial Pump Inspection**

- Power Cord Wire Size 4.
- Power Cord # of Conductors
- Power & Sensor cord combined.



Power Cord Length 6.



12 AWG

4

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29 ft

<ul> <li>7. Power Cord Co</li> </ul>		(F) Fail
8. Sensor Cord W		18 AWG
9. Sensor Cord #		4
10. Sensor Cord Le	-	ft
Combined with		
11. Sensor Cord C	onaltion d power cord combination	(F) Fail
	or Thermal Protection?	(Y) Yes
		00 X-5
	or Water Protection	(Y) Yes
<ul> <li>14. Bowl Condition</li> <li>15. Impeller Condit</li> </ul>		(P) Pass (P) Pass
16. Number of Wea		(r) Fass 1
<ul> <li>17. Wear Ring Cor</li> </ul>		(P) Pass
18. Wear Ring Size		0 in
	arance to Impeller	0 in
20. Wear Ring Mat		brass
21. Seal Surfaces		(F) Fail
22. Seal Type		Mechanical
23. Number of Sea	als	2
24. Seal Material o		sic and carbon
25. Seal Material o	on Stationary Seat	sic and ceramic

26.	Elastic Component Material	Buna
27.	Seal OD	2.1265 mm
•	2 seals.	
28.	Seal ID	in
•	Shaft seal surface 1.5249 inner, and d 1.5241 outer	
29.	Seal Sleeve Material	
30.	Seal Plate Condition	(P) Pass
31.	Water Sensor in Seal Cavity?	(Y) Yes
32. 33.	-	(Y) Yes
		(Y) Yes
	Inspection	2
	Number of Leads	3
35.	Lead Length Power cord is 29 ft.	Inches
•		10
36.	Lead Size	16
37.		(F) Fail
38.	Lead Markings	na
	Lead Size for Oil Filled Stator Lug Size, Condition, and Type 16	0 AWG
41.	Overload Required?	(Y) Yes
42.	Winding RTD's	(N) No
43.	Winding Rtd's Condition	(F) Fail
44.	Shaft Run Out	0
45.	Does Shaft Turn Freely	no
46.	Does Shaft Have Visible Damage	no
47.		(NA) Not Applicable
48.	Bearing Rtd's Condition	(NA) Not Applicable
49.	Contamination	()
	Water contaminated	
50.	Frame Condition	(P) Pass
201		(. ) 1 400

51. Fan Condition

(NA) Not Applicable

#### 52. Broken or missing components

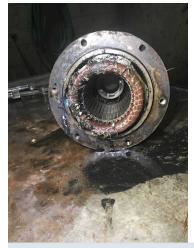
Power cord connection, and power cord connectors.



Initia	Electric Test		
53.	Resistance to Ground	2000 Mohm	
54.	Winding Resistance 1-2	3.6 Ohm	
55.	Winding Resistance 2-3	3.6 Ohm's	
56.	Winding Resistance 1-3	3.6 Ohm's	
57.	Resistive Imbalance	0 %	
58.	Hi-Pot	0 Ua	
59.	Surge Test	(NA) Not Applicable	
60.	Stator Condition	rewind	
	•		



#### 61. Failure Location



Initial Rotor Inspection





squirrel cage aluminum



63. Air Gap <10% Variation	(P) Pass
64. Number of Rotor Bars	43
65. Number of Broken Rotor Bars	0
66. Growler Test	(P) Pass
67. Rotor Condition	(P) Pass
Mechanical Inspection	

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Printed on 4/4/2024

#### 68. Bearing Manufacturer





3308-BD-XL-TVH	Bearing DE Size	69.
DBL wide, DBL row, ball bearing.	Bearing DE Type	70.
1	DE Bearing Qty.	71.
6305	Bearing ODE Size	72.

73. Bearing ODE Type	ball bearing
74. ODE Bearing Qty.	1
75. Insulated Bearing	

No No

7.       Grease Condition       (NA) Not Applicable         7.       Bearing Retainers       (NA) Not Applicable         7.       Shaft Grounding Device       (NA) Not Applicable         7.       DE Seal       (Y) Yes         9.       Outer seal       (Y) Yes	78.       Bearing Retainers       (NA) Not Applicable         79.       Shaft Grounding Device       (NA) Not Applicable         70.       DE Seal       (Y) Yes         71.       DE Seal Type/Size       Seal OD 2.1265.         7.       Shaft seal surface is 1.5241. Carbon ceramic.       Seal OD 2.1265.         7.       DE Seal Type/Size       Seal OD 2.1265.         7.       Inner seal.       (Y) Yes         7.       DE Seal Type/Size       Seal OD 2.1265.         7.       Inner seal.       (Y) Yes         7.       Inner seal.       (Y) Yes         7.       Job Seal Type/Size       Siz / S	76. Lubrication Type	oil
<ul> <li>79. Shaft Grounding Device (NA) Not Applicable</li> <li>79. Shaft Grounding Device (Y) Yes</li> <li>79. Outer seal</li> <li>79. Statt seal</li> <li>79. DE Seal Type/Size</li> <li>79. Seal OD 2.1265.</li> <li>79</li></ul>	9. Shaft Grounding Device       (NA) Not Applicable         9. Outer seal       (Y) Yes         Image: State	77. Grease Condition	(NA) Not Applicable
<ul> <li>80. DE Seal (Y) Yes</li> <li>Outer seal</li> <li>With seal surface is 1.5241. Carbon ceramic.</li> <li>82. ODE Seal surface is 1.5241. Carbon ceramic.</li> <li>83. ODE Seal Type/Size</li> <li>Shaft seal surface is 1.5241. Carbon ceramic.</li> <li>84. DE Seal Type/Size</li> <li>Seal OD 2.1265.</li> <li>Shaft seal surface is 1.5241. Carbon ceramic.</li> <li>85. ODE Seal (Y) Yes</li> <li>Staft seal surface is 1.5241. Carbon ceramic.</li> <li>86. DE Seal Type/Size</li> <li>87. Seal Content of the seal surface is 1.5241. Carbon ceramic.</li> <li>88. ODE Seal (Y) Yes</li> <li>Staft seal surface is 1.5241. Carbon ceramic.</li> <li>89. ODE Seal (Y) Yes</li> <li>Staft seal surface is 1.5241. Carbon ceramic.</li> <li>80. Seal Content of the seal surface is 1.5241. Carbon ceramic.</li> <li>80. Seal Content of the seal surface is 1.5241. Carbon ceramic.</li> <li>81. DE Seal Type/Size</li> <li>82. ODE Seal Type/Size</li> <li>83. ODE Seal Type/Size</li> <li>84. Seal Staft Seal Sta</li></ul>	80. DE Seal       (Y) Yes         Outer seal       Image: Seal Control of Seal Cont	78. Bearing Retainers	
<ul> <li>Outer seal</li> <li>Outer seal</li> <li>Seal OD 2.1265.</li> <li>Shart seal surface is 1.5241. Carbon ceramic.</li> <li>20 DD E Seal</li> <li>OPE Seal</li> <li>(Y) Yes</li> <li>Inner seal.</li> </ul>	<ul> <li>Outer seal</li> <li>Outer seal</li> <li>Seal OD 2.1265.</li> <li>Shaft seal surface is 1.5241. Carbon ceramic.</li> <li>ODE Seal</li> <li>Inner seal.</li> <li>(Y) Yes</li> <li>Inner seal.</li> <li>So DE Seal Type/Size</li> <li>Seal OD 2.1265.</li> <li>Staft seal surface is 1.5241. Carbon ceramic.</li> <li>So DE Seal</li> <li>(Y) Yes</li> <li>Inner seal.</li> </ul>	79. Shaft Grounding Device	(NA) Not Applicable
8. OE Seal Type/Size 8. ODE Seal Type/Size 8. ODE Seal 9. Iner seal 8. ODE Seal 9. Iner seal 8. ODE Seal Type/Size 8. ODE Seal Type/Size	81.       DE Seal Type/Size       Seal OD 2.1265.         9.       Shaft seal surface is 1.5241. Carbon ceramic.         82.       ODE Seal       (Y) Yes         • Inner seal.       (Y) Yes         • Inner seal.       (Y) Yes         • Statistical Statis Statistical Statis Statistical Statistical	80. DE Seal	(Y) Yes
Shaft seal surface is 1.5241. Carbon ceramic.         82. ODE Seal       (Y) Yes         Inner seal.         Image: Staft Seal Staft Se	<ul> <li>Shaft seal surface is 1.5241. Carbon ceramic.</li> <li>ODE Seal (Y) Yes</li> <li>Inner seal.</li> </ul> 83. ODE Seal Type/Size Sic / Sic 9. 2.1265 OD. Of seal. Shaft seal surface is 1.5249		
82. ODE Seal         (Y) Yes           Inner seal.         (Y) Yes           83. ODE Seal Type/Size         SIC / SIC	<ul> <li>82. ODE Seal (Y) Yes</li> <li>Inner seal.</li> <li>83. ODE Seal Type/Size SIC / SIC</li> <li>2.1265 OD. Of seal. Shaft seal surface is 1.5249</li> </ul>		Seal OD 2.1265.
<ul> <li>Iner sea.</li> <li>83. OE Seal Type/Size</li> </ul>	<ul> <li>Inner seal.</li> <li>So DE Seal Type/Size</li> <li>SL 7 SIC</li> <li>SL 7 SIC</li> </ul>		00 X
	2.1265 OD. Of seal. Shaft seal surface is 1.5249		
2.1265 OD. Of seal. Shaft seal surface is 1.5249			SIC / SIC
	oot Cause of Failure	2.1265 OD. Of seal. Shaft seal surface is 1.5249	

84. Component Failure

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seals

#### 85. Cause of Failure

Pump impeller was locked up with what appears to be an excessive amount of feathers. Additionally the power cord was forcibly yanked out of its receptacle, allowing moisture inside the stator causing the windings to short out. The drive end bearing was also locked up from contaminated lubrication.





87. Service Technician

olla

# Machine Fit Inspection Report88. Shaft Run Out(P) Pass89. Initial Shaft Run Out0 "90. Final Shaft Run Out0 "

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**Terrence Holland** 



92.	DE Initial Shaft Bearing Fit Size		
	Measure 1	Measure 2	Measure 3
	1.5745	1.5746	1.5745
93.	DE Final Shaft Bearing Fit Size		
	Measure 1	Measure 2	Measure 3
	1.5752	5.5753	5.5752



94.	ODE Bearing Shaft Fit			(P) Pass
95.	ODE Initial Shaft Bearing Fit Size			
	Measure 1	Measure 2	Measure 3	
	0.9845	0.9845	0.9844000000000001	
96.	ODE Final Shaft Bearing Fit Size			
	Measure 1	Measure 2	Measure 3	
	0	0	0	
97.	DE Air Seal Shaft Fit			(P) Pass
98.	DE Air Seal Shaft Size			
	Initial	Final		
	0	0		
99.	ODE Air Seal Shaft Fit			(P) Pass
100	. ODE Air Seal Shaft Size			
	Initial	Final		
	0	0		

404				
	DE Endbell Fit			(P) Pass
102.	DE Initial Endbell Fit Size			
	Measure 1	Measure 2	Measure 3	
	0	0	0	
103.	DE Final Endbell Fit Size			
	Measure 1	Measure 2	Measure 3	
	0	0	0	
104.	DE Endbell Fit Insulated			(N) No
105.	DE Endbell Air Seal Fit			(P) Pass
106.	DE Endbell Air Seal Fit Size			
	Initial	Final		
	0	0		
107.	ODE Endbell Fit			(P) Pass
108.	ODE Initial Endbell Fit Size			
	Measure 1	Measure 2	Measure 3	
	0	0	0	
109.	ODE Final Endbell Fit Size			
	Measure 1	Measure 2	Measure 3	
	0	0	0	
110.	ODE Endbell Fit Insulated			(N) No
111.	ODE Endbell Air Seal Fit			(P) Pass
112.	ODE Endbell Air Seal Fit Size			
	Initial	Final		
	0	0		
113.	Foot Flatness		(NA) Not A	Applicable
114.	Foot Condition		(NA) Not A	Applicable
115.	Flange Condition			(P) Pass
	Service Technician			Gary
	M.	/		
Balan	cing Report			
117.	Balance Type			na
118.	Balance Operating Speed			0 RPM
119.	Start Left End			0 Mills
120.	Start Right End			0 Mills
121.	Balancing Specification			1.5
122.	Finish Left End			0 Mills
123.	Finish Right End			0 Mills
	- · · · · · · · ·			

124. Service Technician

#### **Assembly and Final Test**

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**Trevor Hall** 

125.	Rotor and Impeller Balanced	(N) No
•	Single flute impellor	
126.	Stator Housing Refilled with Oil (if required)	(Y) Yes
127.	Stator Pressure Test	



128. Seal Cavity Pressure Test	(P) Pass
129. Time Under Pressure	15 min
130. Overload Continuity	(P) Pass
131. Water Sensor Open?	(Y) Yes
132. Meggar Testing Reading	223988 Mohm
133. Surge Test	(P) Pass
RHR cowitness RW	





134.	Hi-Pot			Ua
	Na			
135.	Winding Resistance			
	1-2	2-3	3-1	
	3.299	3.29	3.293	
136.	Test Run			(P) Pass
	Witnessed by Chris Wiley			



137.	Test Run Voltage		
	Phase A	Phase B	Phase C
	459	458	459
138.	Test Run Current		
	Phase A	Phase B	Phase C
	7.9	7.9	7.3
139.	DE Vibration Reading		
	Horizontal	Vertical	Axial
	0	0	0
-	Single flute impeller		
140.	ODE Vibration Reading		
	Horizontal	Vertical	Axial
	0	0	0
141.	Ambient Temp at start of Test Run		74 Degrees F.
142.	Temp at 5 minutes		0 Degrees F.
143.	Temp at 10 minutes		0 Degrees F.
144.	Temp at 15 minutes		0 Degrees F.
145.	Temp at 20 minutes		0 Degrees F.
146.	Temp at 25 minutes		0 Degrees F.
147.	Temp at 30 minutes		0 Degrees F.
148.	Temp at 35 minutes		0 Degrees F.
149.	Temp at 40 minutes		0 Degrees F.
150.	Temp at 45 minutes		0 Degrees F.
151.	Temp at 50 minutes		0 Degrees F.
	Temp at 55 minutes		0 Degrees F.
	Temp at 60 minutes		0 Degrees F.
154.	Motor Paint		(P) Pass

Checked by Chris Wiley

















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**TermsAndConditions** 

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- 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.