



## Submersible Pump Repair Report

George's Inc  
1810 S. St. Louis Street  
Batesville, AR 72501

FolderID: 100273  
FormID: 14544864

### Submersible Pump Repair Report

Location: Shop

Serial Number: C1970998

Description: 7.5HP CRANE SUBMERSIBLE PUMP

Make: CRANE

HP: 7.5 (HP)

Model: 7366N-335-1S-32N

Serial: C1970998

V: 460 (V)

A: 11.9 (A)

Hz: 60 (Hz)

Phase: 3

Service Factor: 1.2

Impeller Diameter: 205 (in)

Priorities Found: ● 3 - High

● 13 - Good

### General

- |                |          |
|----------------|----------|
| 1. Job Number  | 100273   |
| 2. Report Date |          |
| 3. Customer    | George's |

### Initial Pump Inspection



- |                         |     |    |
|-------------------------|-----|----|
| 4. Power Cord Wire Size | AWG | P7 |
|-------------------------|-----|----|





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5.	Power Cord # of Conductors		
6.	Power Cord Length	0 ft	
7.	Power Cord Condition	(F) Fail	
8.	Sensor Cord Wire Size		
9.	Sensor Cord # of Conductors		
10.	Sensor Cord Length	ft	P58
	Unknown. Cord was cut off flush with the top of the cord cap.		



11.	Sensor Cord Condition	(F) Fail	
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		
19.	Wear Ring Clearance to Impeller		
20.	Wear Ring Material		
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	

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26.	Elastic Component Material	
27.	Seal OD	mm
	See parts breakdown.	
28.	Seal ID	in
29.	Seal Sleeve Material	see parts break down.
30.	Seal Plate Condition	(P) Pass
31.	Water Sensor in Seal Cavity?	
32.	Oil Filled Seal Cavity?	(Y) Yes
33.	Oil Filled Stator?	(Y) Yes
<b>Initial Inspection</b>		
34.	Number of Leads	
35.	Lead Length	
36.	Lead Size	
37.	Lead Condition	(F) Fail
38.	Lead Markings	
39.	Lead Size for Oil Filled Stator	
40.	Lug Size, Condition, and Type	
41.	Overload Required?	
42.	Winding RTD's	
43.	Winding Rtd's Condition	
44.	Shaft Run Out	0.002
45.	Does Shaft Turn Freely	no
46.	Does Shaft Have Visible Damage	no
47.	Bearing Rtd's	
48.	Bearing Rtd's Condition	
49.	Contamination	
	Water leakage from seal failure	
50.	Frame Condition	(P) Pass
51.	Fan Condition	(NA) Not Applicable
52.	Broken or missing components	
<b>Initial Electric Test</b>		
53.	Resistance to Ground	
54.	Winding Resistance 1-2	
55.	Winding Resistance 2-3	
56.	Winding Resistance 1-3	
57.	Resistive Imbalance	
58.	Hi-Pot	
59.	Surge Test	(NA) Not Applicable
	Rewind stator.	
60.	Stator Condition	pass
61.	Failure Location	lower seal failure
<b>Initial Rotor Inspection</b>		



62. Rotor Type

squirrel cage laminate

P2



63. Air Gap &lt;10% Variation

64. Number of Rotor Bars

65. Number of Broken Rotor Bars

0

● 66. Growler Test

(P) Pass

● 67. Rotor Condition

(P) Pass

**Mechanical Inspection**

68. Bearing Manufacturer

SKF

69. Bearing DE Size

3308A/c3

P18



70. Bearing DE Type

dbl wide, dbl row ball bearing

71. DE Bearing Qty.

1





73. Bearing ODE Type	regular ball bearing
74. ODE Bearing Qty.	1
75. Insulated Bearing	no
76. Lubrication Type	oil
77. Grease Condition	(NA) Not Applicable
78. Bearing Retainers	
79. Shaft Grounding Device	(NA) Not Applicable
80. DE Seal	
81. DE Seal Type/Size	carbon ceramic
82. ODE Seal	
83. ODE Seal Type/Size	carbon ceramic

#### Root Cause of Failure

84. Component Failure
85. Cause of Failure
86. Comments
87. Service Technician

#### Machine Fit Inspection Report

88. Shaft Run Out
89. Initial Shaft Run Out
90. Final Shaft Run Out
91. DE Bearing Shaft Fit
92. DE Initial Shaft Bearing Fit Size

Measure 1	Measure 2	Measure 3
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93. DE Final Shaft Bearing Fit Size
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Measure 1	Measure 2	Measure 3
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94. ODE Bearing Shaft Fit
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95. ODE Initial Shaft Bearing Fit Size
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Measure 1	Measure 2	Measure 3
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96. ODE Final Shaft Bearing Fit Size
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Measure 1	Measure 2	Measure 3
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97.	DE Air Seal Shaft Fit		
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		
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	
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		
114.	Foot Condition		
115.	Flange Condition		
116.	Service Technician		
<b>Balancing Report</b>			
117.	Balance Type		
118.	Balance Operating Speed		
119.	Start Left End		
120.	Start Right End		
121.	Balancing Specification		
122.	Finish Left End		
123.	Finish Right End		
124.	Service Technician		
<b>Assembly and Final Test</b>			
125.	Rotor and Impeller Balanced		

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126.	Stator Housing Refilled with Oil (if required)		
127.	Stator Pressure Test		
128.	Seal Cavity Pressure Test		
129.	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
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
141.	Ambient Temp at start of Test Run		
142.	Temp at 5 minutes		
143.	Temp at 10 minutes		
144.	Temp at 15 minutes		
145.	Temp at 20 minutes		
146.	Temp at 25 minutes		
147.	Temp at 30 minutes		
148.	Temp at 35 minutes		
149.	Temp at 40 minutes		
150.	Temp at 45 minutes		
151.	Temp at 50 minutes		
152.	Temp at 55 minutes		
153.	Temp at 60 minutes		
154.	Motor Paint		
155.	Service Technician		