

Motor Shop Repairs

Job Number 99020

Prepared for Century Flooring

Highway 9 Spur Melbourne AR 72556

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AC Recondition Repair Report

Century Flooring

Highway 9 Spur Melbourne, AR 72556

Welbourne, AR 72550

Priorities Found: **4 - High**

13 - Good

1 Hornio	or outle. The rings	
General		
1.	Job Number	99020
2.	Report Date	11/19/2021
3.	Customer	99020
Name Plate Information		

Manufacturer

Submersible Pump







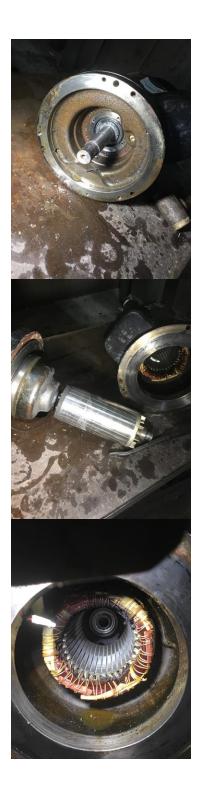


















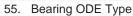


Drive end bearing race cracked

5.	Model	
6.	Serial Number	AM173.11.9T/C/4/3-1
7.	Horsepower	10.4 HP
8.	KW	
9.	Volts	460 Volts
10.	Amps	12.3 Amps
11.	RPM	1750 RPM
12.	Frame	

13.	Enclosure	Submersible pump
14.	Cycles	60 HZ
15.	Phase	3 PH
16.	Service Factor	
17.	Motor Mount Position	
Initial	Inspection	
	Number of Leads	3
19.	Lead Length	
	Lead Size	
21.	Lead Condition	
22.	Lead Markings	4C/12 AWG
	Lug Size, Condition, and Type	
	Winding RTD's	
25.	Winding Rtd's Condition	
26.	Shaft Run Out	
27.	Does Shaft Turn Freely	no
	Does Shaft Have Visible Damage	yes
-	Seal surface bad	·
29.	Bearing Rtd's	
30.		
31.	Contamination	
	Yes/water in stator housing	
32.	Frame Condition	(P) Pass
33.	Fan Condition	(NA) Not Applicable
34.	Broken or missing components	
	None	
Initial	Electric Test	
35.	Resistance to Ground	
36.	Winding Resistance 1-2	
37.	Winding Resistance 2-3	
38.	Winding Resistance 1-3	
39.	Resistive Imbalance	
40.	Hi-Pot	
41.	Surge Test	(F) Fail
-	Rewind/core repair	
42.	Stator Condition	pass
43.	Failure Location	windings
Initial	Rotor Inspection	
44.	Rotor Type	squirrel cage laminate
45.	Air Gap <10% Variation	
46.	Number of Rotor Bars	
47.	Number of Broken Rotor Bars	
48.	Growler Test	(P) Pass
49.	Rotor Condition	(P) Pass
Mech	anical Inspection	
50.	Bearing Manufacture	skf









	56.	ODE Bearing Qty.	1
	57.	Insulated Bearing	no
	58.	Lubrication Type	grease
• !	59.	Grease Condition	(F) Fail
9		Contaminated and dirty	
	60.	Bearing Retainers	(Y) Yes
(61.	Shaft Grounding Device	(NA) Not Applicable
•	62.	DE Seal	(Y) Yes
(63.	DE Seal Type/Size	



64. ODE Seal

65. ODE Seal Type/Size

Root Cause of Failure

66. Component Failure D.E. bearing

67. Cause of Failure

Contaminated grease caused catastrophic race and cage failure. This was caused by seal failure which allowed water inside the stator.





68. Comments

Seal surface bad.

69. Service Technician Terrence. Holland

Town Holled

Ν	Machine Fit Inspection Report		
	70.	Shaft Run Out	(P) Pass
	71.	Initial Shaft Run Out	0.002 "
	72.	Final Shaft Run Out	
	73.	DE Bearing Shaft Fit	(F) Fail
	74.	DE Initial Shaft Bearing Fit Size 1	1.378 "
	75.	DE Initial Shaft Bearing Fit Size 2	1.378 "
	76.	DE Initial Shaft Bearing Fit Size 3	1.3778 "
	77.	DE Finial Shaft Bearing Fit Size 1	
	78.	DE Finial Shaft Bearing Fit Size 2	
	79.	DE Finial Shaft Bearing Fit Size 3	
	80.	ODE Bearing Shaft Fit	(F) Fail
	81.	ODE Initial Shaft Bearing Fit Size 1	0.982 "
	82.	ODE Initial Shaft Bearing Fit Size 2	
	83.	ODE Initial Shaft Bearing Fit Size 3	
	84.	ODE Finial Shaft Bearing Fit Size 1	
	85.	ODE Finial Shaft Bearing Fit Size 2	
	86.	ODE Finial Shaft Bearing Fit Size 3	
	87.	DE Air Seal Shaft Fit	
	88.	DE Initial Air Seal Shaft Size	
	89.	DE Final Air Seal Shaft Size	
	90.	ODE Air Seal Shaft Fit	
	91.	ODE Initial Air Seal Shaft Size	
	92.	ODE Final Air Seal Shaft Size	
	93.	DE Endbell Fit	(P) Pass

94. DE Initial Endbell Fit Size 1	2.835 "
95. DE Initial Endbell Fit Size 2	2.835 "
96. DE Initial Endbell Fit Size 3	2.835 "
97. DE Final Endbell Fit Size 1	
98. DE Finial Endbell Fit Size 2	
99. DE Final Endbell Fit Size 3	
100. DE Endbell Fit Insulated	(NA) Not Applicable
101. DE Endbell Air Seal Fit	
102. Initial Endbell Air Seal Fit Size	
103. Finial Endbell Air Seal Fit Size	
■ 104. ODE Endbell Fit	(P) Pass
105. ODE Initial Endbell Fit Size 1	2.4411 "
106. ODE Initial Endbell Fit Size 2	2.4413 "
107. ODE Initial Endbell Fit Size 3	2.4413 "
108. ODE Final Endbell Fit Size 1	
109. ODE Final Endbell Fit Size 2	
110. ODE Final Endbell Fit Size 3	
111. ODE Endbell Fit Insulated	(NA) Not Applicable
112. ODE Endbell Air Seal Fit	
113. ODE Initial Endbell Seal Fit Size	
114. ODE Finial Endbell Seal Fit Size	
■ 115. Foot Flatness	(NA) Not Applicable
116. Foot Condition	(NA) Not Applicable
■ 117. Flange Condition	(P) Pass
118. Service Technician	Terrence. Holland
Balancing Report	
119. Balance Type	
120. Balance Operating Speed	
121. Start Left End	
122. Start Right End	
123. Balancing Specification	
124. Finish Left End	
125. Finish Right End	
126. Service Technician	
Assembly and Final Test	

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128.	Surge Test
129.	Hi-Pot
130.	Winding Resistance 1-2
131.	Winding Resistance 2-3
132.	Winding Resistance 1-3
133.	Test Run Voltage Phase A
134.	Test Run Amps A
135.	Test Run Voltage Phase B
136.	Test Run Amps B
137.	Test Run Voltage Phase C
138.	Test Run Amps C
139.	DE Horizontal Vibration Reading
140.	DE Vertical Vibration Reading
141.	DE Axial Vibration Reading
142.	ODE Horizontal Vibration Reading
143.	ODE Vertical Vibration Reading
144.	ODE Axial Vibration Reading
145.	Ambient Temp at start of Test Run
146.	Temp at 5 minutes
147.	Temp at 10 minutes
148.	Temp at 15 minutes
149.	Temp at 20 minutes
150.	Temp at 25 minutes
151.	Temp at 30 minutes
152.	Temp at 35 minutes
153.	Temp at 40 minutes
154.	Temp at 45 minutes
155.	Temp at 50 minutes
156.	Temp at 55 minutes
157.	Temp at 60 minutes
158.	Motor Paint (P) Pass















159. Service Technician David Maclin



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- 1. APPLICABILITY. The sale of any and all goods and/or services by Mock, Inc. d/b/a Hi-Speed Industrial Service ("Hi-Speed") shall be specifically conditioned upon and subject to the following terms and conditions which are incorporated by reference into any contracts and purchase orders with Hi-Speed, and which shall form and become a part of any agreement related thereto. Buyer's acceptance of any offer or quotation made by Hi-Speed for sale of any goods or services is expressly made subject to the terms and conditions set forth herein and to be so effective, Buyer need not sign or approve these Terms and Conditions to be bound hereunder provided a copy of same is provided to Buyer through any means. None of the terms and conditions contained herein may be added to, expanded, changed, modified, superseded or otherwise altered except as revised in writing and duly executed by Hi-Speed, and all orders received by Hi-Speed shall be governed only by the terms and conditions contained herein, notwithstanding any terms, conditions or provisions of any purchase order, release order, authorization or any other form issued by the Buyer. Hi-Speed hereby objects to any additional, modified, changed, deleted, altered or other terms and conditions not contained herein and notifies Buyer that any such terms or provisions are expressly rejected by Hi-Speed.
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- 8. <u>WARRANTIES.</u> Hi-Speed warrants that all goods shall conform in all material aspects to the goods identified in the quotation to Buyer and/or purchase order, and Hi-Speed makes to Buyer the manufacturer's express warranty for any goods sold to Buyer, which is offered by the manufacturer at the time of acceptance of any quotation by Buyer. This warranty is conditioned upon the installation, operation, and maintenance of the goods in accordance with the manufacturer's recommendations and/or standard industry practice and the goods at all times being operated or used under normal operating conditions for which they were designed. Hi-Speed, at its sole option, will repair or

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