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

AC Recondition Repair Report

FolderID: 99020
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Century Flooring
Highway 9 Spur
Melbourne, AR 72556

Priorities Found: **4 - High** **12 - Good**

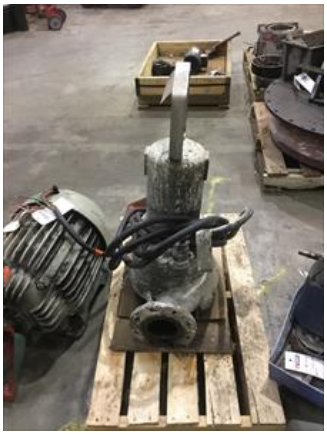
General

1.	Job Number	**99020**
2.	Report Date	**11/19/2021**
3.	Customer	**99020**

Name Plate Information

4.	Manufacturer	**HOMA**	P5

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

18.	Number of Leads	**3**
19.	Lead Length	
20.	Lead Size	
21.	Lead Condition	
22.	Lead Markings	**4C/12 AWG**
23.	Lug Size, Condition, and Type	
24.	Winding RTD's	
25.	Winding Rtd's Condition	

	26.	Shaft Run Out	
	27.	Does Shaft Turn Freely	**no**
	28.	Does Shaft Have Visible Damage	**yes**
		Seal surface bad	
	29.	Bearing Rtd's	
	30.	Bearing Rtd's Condition	
	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**
Mechanical Inspection			
	50.	Bearing Manufacture	**skf**
	51.	Bearing DE Size	**6207 double wide double row**
	52.	Bearing DE Type	
	53.	DE Bearing Qty.	**1**
	54.	Bearing ODE Size	**6305**

	55.	Bearing ODE Type	P53

	56.	ODE Bearing Qty.	**1**
	57.	Insulated Bearing	**no**
	58.	Lubrication Type	**grease**
	59.	Grease Condition	**(F) Fail**
		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	P90

	64.	ODE Seal	
	65.	ODE Seal Type/Size	

Root Cause of Failure

	66.	Component Failure	**D.E. bearing**

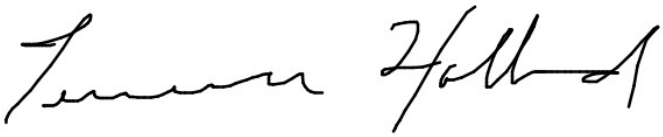
67. Cause of Failure

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.

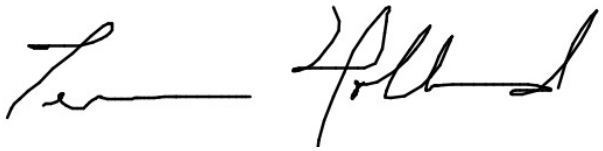
69. Service Technician **Terrence. Holland**



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	**1.378 "**
	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

	127.	Meggar Testing Reading	
	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
159.	Service Technician