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

AC Recondition Repair Report

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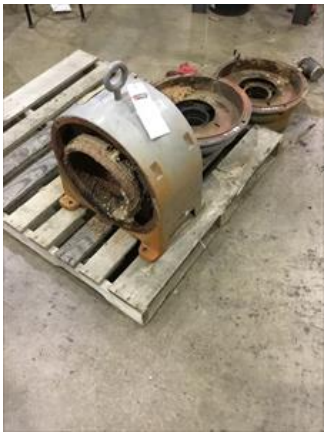
ARKANSAS INDUSTRIAL MACHINERY
3804 N. NONA ST
NORTH LITTLE ROCK, AR 72118

Priorities Found: **5 - High** **7 - Good**

General		
1.	Job Number	**97983**
2.	Report Date	**03/16/2021**
3.	Customer	**ARKANSAS INDUSTRIAL MACHINE**
Name Plate Information		
4.	Manufacturer	**WORLD WIDE**
5.	Model	
6.	Serial Number	**2-6N3630**
7.	Horsepower	**25**
8.	KW	
9.	Volts	**440**
10.	Amps	**31.3**
11.	RPM	**1761**
12.	Frame	**364-Y**
13.	Enclosure	**DP**
14.	Cycles	**60**
15.	Phase	**3**
16.	Service Factor	
17.	Motor Mount Position	
Initial Inspection		
18.	Number of Leads	**3**
19.	Lead Length	**9 Inches**
20.	Lead Size	
21.	Lead Condition	
22.	Lead Markings	
23.	Lug Size, Condition, and Type	
	No	
24.	Winding RTD's	
25.	Winding Rtd's Condition	
26.	Shaft Run Out	**0.005**
27.	Does Shaft Turn Freely	
28.	Does Shaft Have Visible Damage	
29.	Bearing Rtd's	
30.	Bearing Rtd's Condition	

31.	Contamination *Yes*		P104

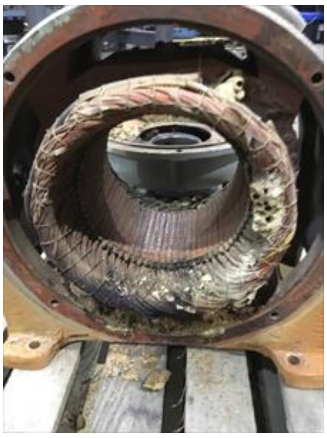
32.	Frame Condition	**(P) Pass**	P106



33.	Fan Condition	**(NA) Not Applicable**	
34.	Broken or missing components		

Initial Electric Test

35.	Resistance to Ground	**Mohm**	P7

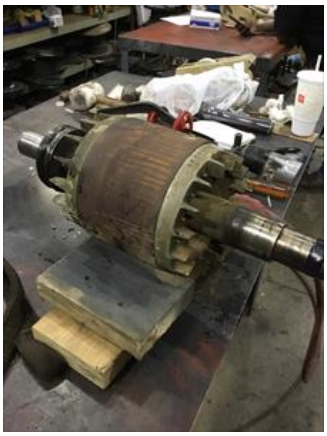


36.	Winding Resistance 1-2		
37.	Winding Resistance 2-3		
38.	Winding Resistance 1-3		
39.	Resistive Imbalance		

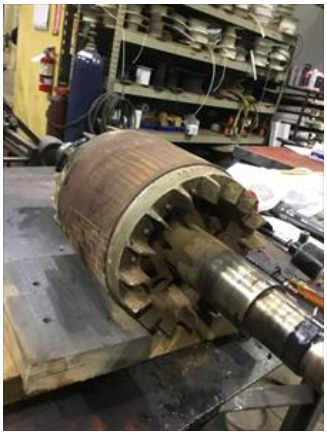
40.	Hi-Pot		
41.	Surge Test		
42.	Stator Condition		
43.	Failure Location		

Initial Rotor Inspection

44.	Rotor Type	**squirrel cage**	P4

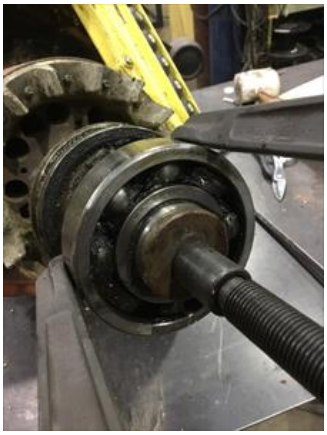


45.	Air Gap <10% Variation		
46.	Number of Rotor Bars		
47.	Number of Broken Rotor Bars		
48.	Growler Test		
49.	Rotor Condition	**(P) Pass**	P50



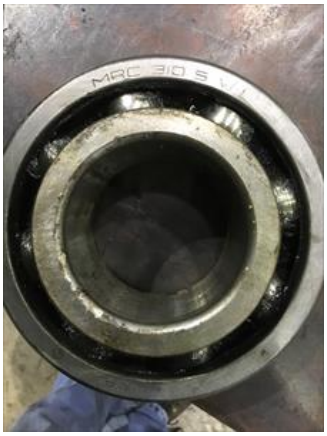
Mechanical Inspection

50.	Bearing Manufacture		P1



51.	Bearing DE Size	**5310 W C2**	P15

52.	Bearing DE Type	**double wide**	
53.	DE Bearing Qty.	**1**	
54.	Bearing ODE Size	**310 S W1**	P43



55.	Bearing ODE Type		
56.	ODE Bearing Qty.	**1**	
57.	Insulated Bearing	**no**	
58.	Lubrication Type	**grease**	
59.	Grease Condition	**(F) Fail**	
60.	Bearing Retainers	**(NA) Not Applicable**	

	61.	Shaft Grounding Device	**(NA) Not Applicable**
	62.	DE Seal	**(NA) Not Applicable**
	63.	DE Seal Type/Size	
	64.	ODE Seal	
	65.	ODE Seal Type/Size	

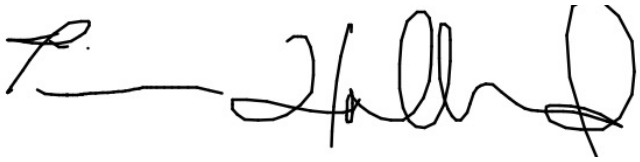
Root Cause of Failure

	66.	Component Failure	**Windings shorted from debris**
	67.	Cause of Failure	
		Excessive debris inside stator	
	68.	Comments	
		Rewind stator. Machine both end bell bearing housings. Repair/machine d.e. Bearing journal.	
	69.	Service Technician	**RHR**

Machine Fit Inspection Report

🔴	70.	Shaft Run Out	**(F) Fail**
	71.	Initial Shaft Run Out	**0.005 "**
	72.	Final Shaft Run Out	
🔴	73.	DE Bearing Shaft Fit	**(F) Fail**
	74.	DE Initial Shaft Bearing Fit Size 1	**1.9677 "**
	75.	DE Initial Shaft Bearing Fit Size 2	**1.9679 "**
	76.	DE Initial Shaft Bearing Fit Size 3	**1.9676 "**
	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	**(P) Pass**
	81.	ODE Initial Shaft Bearing Fit Size 1	**1.969 "**
	82.	ODE Initial Shaft Bearing Fit Size 2	**1.9688 "**
	83.	ODE Initial Shaft Bearing Fit Size 3	**1.9688 "**
	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	**(F) Fail**
	94.	DE Initial Endbell Fit Size 1	**4.3325 "**
	95.	DE Initial Endbell Fit Size 2	**4.3317 "**
	96.	DE Initial Endbell Fit Size 3	**4.3323 "**
	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	**(F) Fail**
105.	ODE Initial Endbell Fit Size 1	**4.3325 "**
106.	ODE Initial Endbell Fit Size 2	**4.3327 "**
107.	ODE Initial Endbell Fit Size 3	**4.3322 "**
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	
112.	ODE Endbell Air Seal Fit	
113.	ODE Initial Endbell Seal Fit Size	
114.	ODE Finial Endbell Seal Fit Size	
115.	Foot Flatness	**(P) Pass**
116.	Foot Condition	**(P) Pass**
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