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

AC Recondition Repair Report

FolderID: 98112
FormID: 10445837

Process & Power
1625 East 145th Street
Little Rock, AR 72206

Priorities Found: **2 - High** **12 - Good**

General

1.	Job Number	**98112**
2.	Report Date	**04/16/2021**
3.	Customer	**PROCESS AND POWER**

Name Plate Information

4.	Manufacturer	**BALDOR**	P5

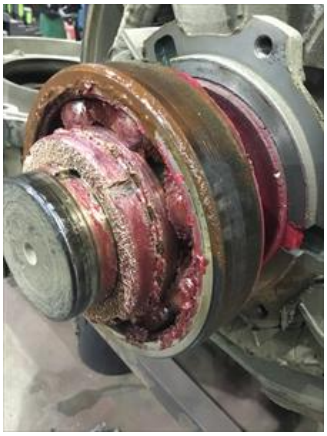
5.	Model	**RCP-406**
6.	Serial Number	**A1302522042**
7.	Horsepower	**400**
8.	KW	
9.	Volts	**460**
10.	Amps	**457**
11.	RPM	**1785**
12.	Frame	**449TDZ**
13.	Enclosure	**DP**
14.	Cycles	**60**
15.	Phase	**3**
16.	Service Factor	**1.15**
17.	Motor Mount Position	

Initial Inspection

18.	Number of Leads	**12**
19.	Lead Length	**95 Inches**
20.	Lead Size	**1**

21.	Lead Condition	**(P) Pass**	P42

22.	Lead Markings	**1-12**	
23.	Lug Size, Condition, and Type		
24.	Winding RTD's		
25.	Winding Rtd's Condition		
26.	Shaft Run Out	**0.001**	
27.	Does Shaft Turn Freely	**yes**	
28.	Does Shaft Have Visible Damage	**no**	
29.	Bearing Rtd's		
30.	Bearing Rtd's Condition		
31.	Contamination ***Dirt***		P104



32.	Frame Condition	**(P) Pass**	
33.	Fan Condition		
34.	Broken or missing components		

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	**(P) Pass**	

42.	Stator Condition	**dirty**	
43.	Failure Location		

Initial Rotor Inspection

44.	Rotor Type	**cast aluminum**	
45.	Air Gap <10% Variation		
46.	Number of Rotor Bars	**58**	
47.	Number of Broken Rotor Bars	**0**	
48.	Growler Test	**(P) Pass**	
49.	Rotor Condition	**(P) Pass**	P50

Mechanical Inspection

50.	Bearing Manufacture	**skf**	
51.	Bearing DE Size	**nu222ec**	P15

52.	Bearing DE Type	**roller**	
53.	DE Bearing Qty.	**1**	
54.	Bearing ODE Size	**6318 c3**	
55.	Bearing ODE Type	**ball**	
56.	ODE Bearing Qty.	**1**	
57.	Insulated Bearing		
58.	Lubrication Type	**grease**	
59.	Grease Condition	**(F) Fail**	

60.	Bearing Retainers	**(Y) Yes**	P80

61.	Shaft Grounding Device	
62.	DE Seal	
63.	DE Seal Type/Size	
64.	ODE Seal	
65.	ODE Seal Type/Size	

Root Cause of Failure

66.	Component Failure	**bearings and opposite drive endbell**
67.	Cause of Failure ***Normal wear***	
68.	Comments	
69.	Service Technician	

Machine Fit Inspection Report

70.	Shaft Run Out	**(P) Pass**
71.	Initial Shaft Run Out	**0.001 "**
72.	Final Shaft Run Out	
73.	DE Bearing Shaft Fit	**(P) Pass**
74.	DE Initial Shaft Bearing Fit Size 1	**4.3318 "**
75.	DE Initial Shaft Bearing Fit Size 2	**4.3318 "**
76.	DE Initial Shaft Bearing Fit Size 3	**4.3318 "**
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	**3.5439 "**
82.	ODE Initial Shaft Bearing Fit Size 2	**3.5439 "**
83.	ODE Initial Shaft Bearing Fit Size 3	**3.5438 "**
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**	P129

	94.	DE Initial Endbell Fit Size 1	**7.8745 "**	
	95.	DE Initial Endbell Fit Size 2	**7.8745 "**	
	96.	DE Initial Endbell Fit Size 3	**7.8746 "**	
	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		
	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**	P145

	105.	ODE Initial Endbell Fit Size 1	**7.4822 "**	
	106.	ODE Initial Endbell Fit Size 2	**7.482 "**	
	107.	ODE Initial Endbell Fit Size 3	**7.482 "**	
	108.	ODE Final Endbell Fit Size 1	**7.4808 "**	P149

109.	ODE Final Endbell Fit Size 2	**7.4808 "**
110.	ODE Final Endbell Fit Size 3	**7.4807 "**
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	
118.	Service Technician	

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