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

AC Recondition Repair Report

FolderID: 98376
FormID: 10994514

INDUSTRIAL SUPPLY & SERVICE
8203 DISTRIBUSTION DRIVE
LITTLE ROCK, AR 72209

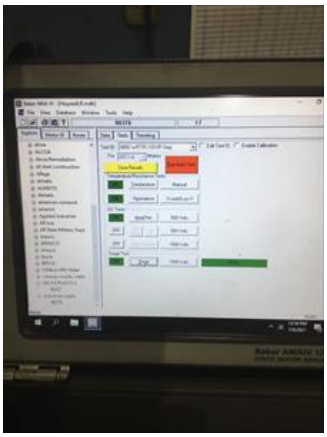
Priorities Found: **3 - High** **13 - Good**

General

1.	Job Number	**98376**
2.	Report Date	**06/30/2021**
3.	Customer	**INDUSTRIAL SUPPLY**

Name Plate Information

4.	Manufacturer	**BALDOR**	P5



5.	Model	**CAT# 1274660022**
6.	Serial Number	**Z0306090023**
7.	Horsepower	**30**
8.	KW	
9.	Volts	**460**
10.	Amps	**34.5**
11.	RPM	**3525**
12.	Frame	**284TS**
13.	Enclosure	**OPSB**
14.	Cycles	**60**
15.	Phase	**3**
16.	Service Factor	**1.15**
17.	Motor Mount Position	

Initial Inspection

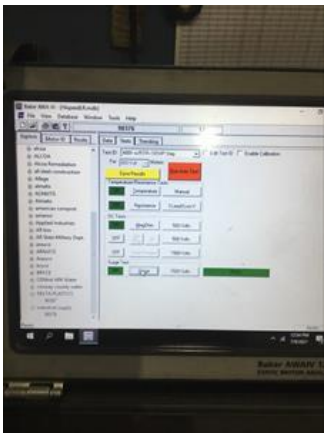
18.	Number of Leads	**9**
19.	Lead Length	**8 Inches**
20.	Lead Size	

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

22.	Lead Markings	**1-9**	
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 ***Dirty***		
32.	Frame Condition	**(P) Pass**	
33.	Fan Condition	**(NA) Not Applicable**	
34.	Broken or missing components		

Initial Electric Test

35.	Resistance to Ground	**Mohm**	
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**	P58



42.	Stator Condition	**pass but windings are dirty**	
43.	Failure Location	**bearings and both housing fits**	

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	**0**	
48.	Growler Test	**(P) Pass**	
49.	Rotor Condition	**(P) Pass**	P50

Mechanical Inspection

50.	Bearing Manufacture	**NSK**
51.	Bearing DE Size	**6311 2Z/ C3**

52.	Bearing DE Type	**regular ball bearing**	P23

53.	DE Bearing Qty.	**1**	
54.	Bearing ODE Size	**6208 2Z/C3**	
55.	Bearing ODE Type	**regular ball bearing**	P53

56.	ODE Bearing Qty.	**1**	
57.	Insulated Bearing	**no**	
58.	Lubrication Type	**grease**	
59.	Grease Condition	**(F) Fail**	P74

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	**bearings**
67.	Cause of Failure	

Contaminated grease and housing fits out of tolerance.

68. Comments

Both bearings contained contaminated grease and both housing fits show pitting and excessive wear. Also stator windings coated with excessive amounts of dirt.

69.	Service Technician	**Terrence. Holland**

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	**2.1662 "**	
75.	DE Initial Shaft Bearing Fit Size 2	**2.1663 "**	
76.	DE Initial Shaft Bearing Fit Size 3	**2.1662 "**	
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	**1.575 "**	
82.	ODE Initial Shaft Bearing Fit Size 2	**1.575 "**	
83.	ODE Initial Shaft Bearing Fit Size 3	**1.575 "**	
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**	P129

94.	DE Initial Endbell Fit Size 1	**4.7255 "**	
95.	DE Initial Endbell Fit Size 2	**4.7256 "**	
96.	DE Initial Endbell Fit Size 3	**4.7256 "**	

Housing fit pitted and measures too large.

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

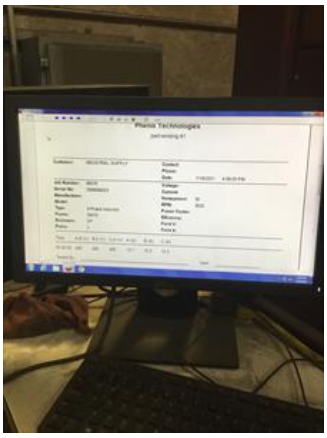
105.	ODE Initial Endbell Fit Size 1	**3.1505 "**
106.	ODE Initial Endbell Fit Size 2	**3.1506 "**
107.	ODE Initial Endbell Fit Size 3	**3.1505 "**
	Housing fit pitted and measures too large	
108.	ODE Final Endbell Fit Size 1	**3.1498 "** P149

109.	ODE Final Endbell Fit Size 2	**3.1498 "**
110.	ODE Final Endbell Fit Size 3	**3.1498 "**
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	**(P) Pass**
116.	Foot Condition	**(P) Pass**
117.	Flange Condition	**(NA) Not Applicable**
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	**(P) Pass**	P136



159. Service Technician **Terrence. Holland**