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

AC Recondition Repair Report

FolderID: 98069
FormID: 10383992

SAGE
5901 SLOAN DRIVE
LITTLE ROCK, AR 72206

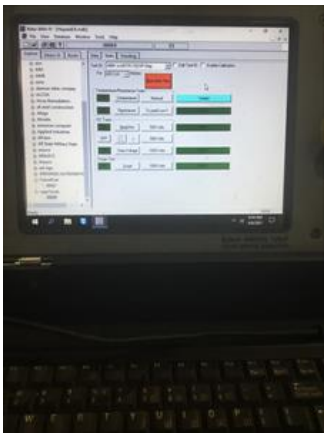
Priorities Found: **2 - High** **14 - Good**

General

1.	Job Number	**98069**
2.	Report Date	**04/07/2021**
3.	Customer	

Name Plate Information

4.	Manufacturer	**BALDOR**	P5



5.	Model	
6.	Serial Number	
7.	Horsepower	**40**
8.	KW	
9.	Volts	**460**
10.	Amps	**48**
11.	RPM	**1770**
12.	Frame	**324TCZ**
13.	Enclosure	**TEFC**
14.	Cycles	**60**
15.	Phase	**3**
16.	Service Factor	
17.	Motor Mount Position	
Initial Inspection		
18.	Number of Leads	**3**
19.	Lead Length	**13.5 Inches**
20.	Lead Size	

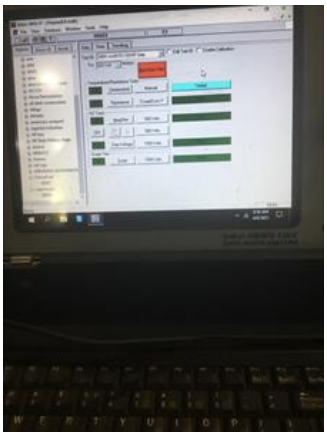
21.	Lead Condition	**(P) Pass**		P42

22.	Lead Markings		
23.	Lug Size, Condition, and Type		
24.	Winding RTD's		
25.	Winding Rtd's Condition		
26.	Shaft Run Out		
27.	Does Shaft Turn Freely	**yes**	
28.	Does Shaft Have Visible Damage		
29.	Bearing Rtd's		
30.	Bearing Rtd's Condition		
31.	Contamination		P104

Grease dirty

32.	Frame Condition	**(P) Pass**	
33.	Fan Condition	**(F) Fail**	P109

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**	P58



42.	Stator Condition	**good**	
43.	Failure Location		
Initial Rotor Inspection			
44.	Rotor Type	**Laminate squirrel cage**	
45.	Air Gap <10% Variation		
46.	Number of Rotor Bars		
47.	Number of Broken Rotor Bars		
48.	Growler Test		
49.	Rotor Condition	**(P) Pass**	
Mechanical Inspection			
50.	Bearing Manufacture	**FAG**	

51.	Bearing DE Size	**6312 RSR**	P15

52.	Bearing DE Type	**Regular sealed bearing**	
53.	DE Bearing Qty.	**1**	
54.	Bearing ODE Size	**6311 RSR**	
55.	Bearing ODE Type	**sealed**	P53

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

60.	Bearing Retainers	**(Y) Yes**	
61.	Shaft Grounding Device	**(NA) Not Applicable**	

●	62.	DE Seal	**(Y) Yes**
	63.	DE Seal Type/Size	**in pro seal**
●	64.	ODE Seal	**(Y) Yes**
	65.	ODE Seal Type/Size	**in pro seal**

Root Cause of Failure

	66.	Component Failure	**D.E. bearing.**
	67.	Cause of Failure	
		D.E. Bearing failed due to contaminated grease. Also excessive amounts of rust was found inside the stator and end bell housings indicating moisture.	
	68.	Comments	
		Windings and machine fits check good.	
	69.	Service Technician	**Terrence Holland**

Machine Fit Inspection Report

	70.	Shaft Run Out	
	71.	Initial Shaft Run Out	**0.004 "**
	72.	Final Shaft Run Out	
●	73.	DE Bearing Shaft Fit	**(P) Pass**
	74.	DE Initial Shaft Bearing Fit Size 1	**2.3628 "**
	75.	DE Initial Shaft Bearing Fit Size 2	**2.3628 "**
	76.	DE Initial Shaft Bearing Fit Size 3	**2.3628 "**
	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	**2.1656 "**
	82.	ODE Initial Shaft Bearing Fit Size 2	**2.1655 "**
	83.	ODE Initial Shaft Bearing Fit Size 3	**2.1655 "**
	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	**5.119 "**
	95.	DE Initial Endbell Fit Size 2	**5.1187 "**
	96.	DE Initial Endbell Fit Size 3	**5.1187 "**
	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	**4.7491 "**
106.	ODE Initial Endbell Fit Size 2	**4.749 "**
107.	ODE Initial Endbell Fit Size 3	**4.749 "**
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	**(P) Pass**
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