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

AC Recondition Repair Report

FolderID: 97701
FormID: 9677332

Hi-Speed Industrial Service
7030 Ryburn Drive
MILLINGTON, Tennessee 38053

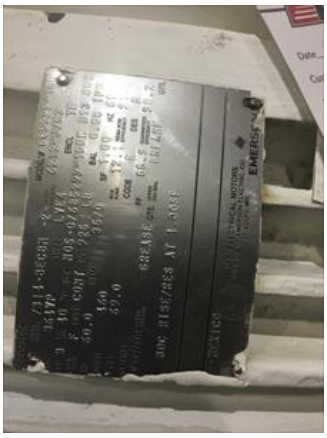
Priorities Found: **2 - High** **13 - Good**

General

1.	Job Number	**97701**
2.	Report Date	
3.	Customer	**HI SPEED MIL.**

Name Plate Information

4.	Manufacturer	**US ELECTRIC**	P5



5.	Model	**07685299-100**
6.	Serial Number	
7.	Horsepower	**60**
8.	KW	
9.	Volts	**460**
10.	Amps	**69.0**
11.	RPM	**3570**
12.	Frame	**364VP**
13.	Enclosure	**TE**
14.	Cycles	**60**
15.	Phase	**3**
16.	Service Factor	**1.0**
17.	Motor Mount Position	**F1**

Initial Inspection

18.	Number of Leads	**3**	P13

19.	Lead Length	**9 Inches**	
20.	Lead Size		P37

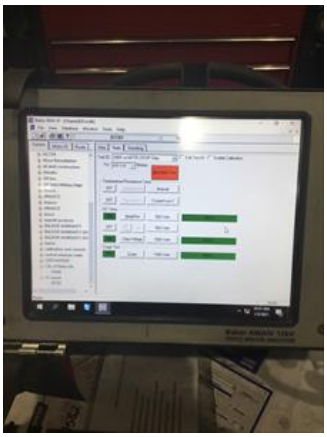
21.	Lead Condition	**(P) Pass**	
22.	Lead Markings	**1-3**	
23.	Lug Size, Condition, and Type		
24.	Winding RTD's		
25.	Winding Rtd's Condition		
26.	Shaft Run Out		
27.	Does Shaft Turn Freely	**yes**	
28.	Does Shaft Have Visible Damage	**no**	P94

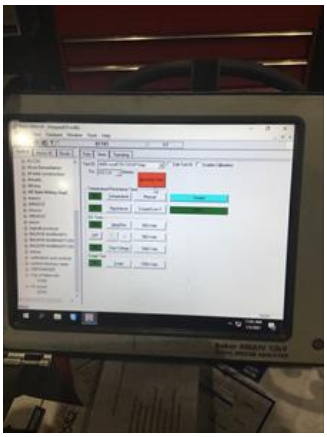
	29.	Bearing Rtd's	
	30.	Bearing Rtd's Condition	
	31.	Contamination	P104

Grease dirty/contaminated

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

34.	Broken or missing components ***Fan assembly***		
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		
43.	Failure Location		
Initial Rotor Inspection			
44.	Rotor Type	**squirrel cage**	
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**	
Mechanical Inspection			
50.	Bearing Manufacture	**Peer**	

51.	Bearing DE Size	**SKF 7314 BECBM**	P15

52.	Bearing DE Type	**thrust**	
53.	DE Bearing Qty.	**2**	P30

54.	Bearing ODE Size	**6212**	P43

55.	Bearing ODE Type	**regular ball bearing**	
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	
	63.	DE Seal Type/Size	
	64.	ODE Seal	
	65.	ODE Seal Type/Size	
Root Cause of Failure			
	66.	Component Failure	
	67.	Cause of Failure	
	68.	Comments	
	69.	Service Technician	
Machine Fit Inspection Report			
	70.	Shaft Run Out	
	71.	Initial Shaft Run Out	
	72.	Final Shaft Run Out	
●	73.	DE Bearing Shaft Fit	**(P) Pass**
	74.	DE Initial Shaft Bearing Fit Size 1	**2.7566 "**
	75.	DE Initial Shaft Bearing Fit Size 2	**2.7563 "**
	76.	DE Initial Shaft Bearing Fit Size 3	**2.7563 "**
	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	**2.3622 "**
	82.	ODE Initial Shaft Bearing Fit Size 2	**2.3624 "**
	83.	ODE Initial Shaft Bearing Fit Size 3	**2.3622 "**
	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	**5.906 "**
	95.	DE Initial Endbell Fit Size 2	**5.9062 "**
	96.	DE Initial Endbell Fit Size 3	**5.906 "**
	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	
	106.	ODE Initial Endbell Fit Size 2	
	107.	ODE Initial Endbell Fit Size 3	
	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