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: **4 - High** **12 - Good**

General

1.	Job Number	**98307**
2.	Report Date	**06/08/2021**
3.	Customer	**ARKANSAS INDUSTRIAL MACHINE**

Name Plate Information

4.	Manufacturer	**SIEMENS**	P5

5.	Model	**UC 0102/018093801 IMB5**
6.	Serial Number	**1LA6 288-4GA91-Z**
7.	Horsepower	**150**
8.	KW	
9.	Volts	**460**
10.	Amps	**180**
11.	RPM	**1790**
12.	Frame	**44TSD**
13.	Enclosure	**TEFC**
14.	Cycles	**60**
15.	Phase	**3**
16.	Service Factor	**1**
17.	Motor Mount Position	

Initial Inspection

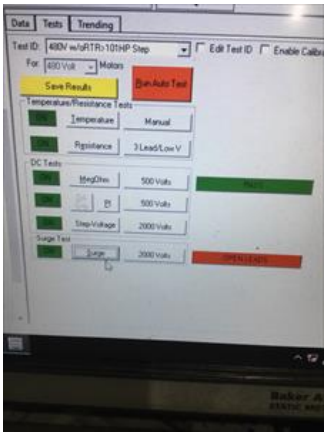
18.	Number of Leads	**6**
19.	Lead Length	
20.	Lead Size	
21.	Lead Condition	**(F) Fail**
	No numbers on leads.	
22.	Lead Markings	
23.	Lug Size, Condition, and Type	
24.	Winding RTD's	
25.	Winding Rtd's Condition	

	26.	Shaft Run Out		
	27.	Does Shaft Turn Freely		
	28.	Does Shaft Have Visible Damage		
	29.	Bearing Rtd's		
	30.	Bearing Rtd's Condition		
	31.	Contamination ***Water***		
●	32.	Frame Condition	**(P) Pass**	
●	33.	Fan Condition	**(P) Pass**	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	**(F) Fail**	P58



	42.	Stator Condition	**pass**	
	43.	Failure Location	**leads**	

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

Mechanical Inspection

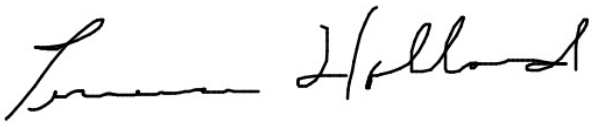
	50.	Bearing Manufacture	**URB1**	P1

	51.	Bearing DE Size	**6216**	
	52.	Bearing DE Type	**regular ball bearing**	
	53.	DE Bearing Qty.	**1**	
	54.	Bearing ODE Size	**6216**	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**	
		Water contaminated.		
●	60.	Bearing Retainers	**(Y) Yes**	
	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	
	67.	Cause of Failure	
		Stator housing saturated with water.	
	68.	Comments	
	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	**3.1502 "**
	75.	DE Initial Shaft Bearing Fit Size 2	**3.1501 "**
	76.	DE Initial Shaft Bearing Fit Size 3	**3.1502 "**
	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	**3.15 "**
	82.	ODE Initial Shaft Bearing Fit Size 2	**3.1499 "**
	83.	ODE Initial Shaft Bearing Fit Size 3	**3.1501 "**
	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**
		Lip worn in sleeve.	
	94.	DE Initial Endbell Fit Size 1	
	95.	DE Initial Endbell Fit Size 2	
	96.	DE Initial Endbell Fit Size 3	
	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	**5.5123 "**

106.	ODE Initial Endbell Fit Size 2	**5.5123 "**
107.	ODE Initial Endbell Fit Size 3	**5.5124 "**
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