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

AC Recondition Repair Report

FolderID: 99356
FormID: 12771285

ARKANSAS INDUSTRIAL MACHINERY
3804 N. NONA ST
NORTH LITTLE ROCK, AR 72118

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

General

1.	Job Number	**99356**
2.	Report Date	**02/07/2022**
3.	Customer	**Arkansas Industrial Machinery**

Name Plate Information

4.	Manufacturer	**Siemens**	P5

	5.	Model	**1LG6 258-4AA99-Z 250M**
	6.	Serial Number	**1622-4608-80**
	7.	Horsepower	**140**
	8.	KW	
	9.	Volts	**400**
	10.	Amps	**194**
	11.	RPM	**2510**
	12.	Frame	**250M**
	13.	Enclosure	**TEFC**
	14.	Cycles	**84.3**
	15.	Phase	**3**
	16.	Service Factor	
	17.	Motor Mount Position	
Initial Inspection			
	18.	Number of Leads	**6**
	19.	Lead Length	
	20.	Lead Size	
●	21.	Lead Condition	**(P) Pass**
	22.	Lead Markings	**#1-6**
	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	
●	32.	Frame Condition	**(P) Pass**

33.	Fan Condition	**(F) Fail**	P109

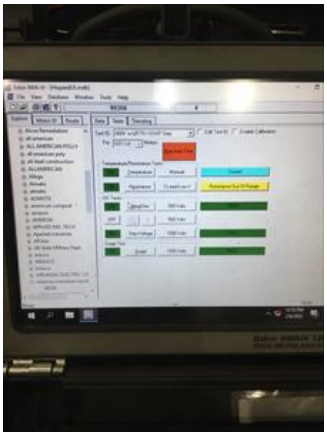
Fan lock tabs broken

34.	Broken or missing components	

Fan blade lock tabs broken.

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	**pass**
43.	Failure Location	**seal failure**

Initial Rotor Inspection

	44.	Rotor Type	P4

	45.	Air Gap <10% Variation	
	46.	Number of Rotor Bars	
	47.	Number of Broken Rotor Bars	**0**
	48.	Growler Test	
●	49.	Rotor Condition	**(P) Pass**

Mechanical Inspection

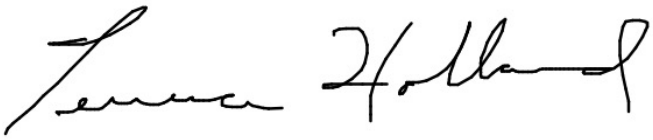
	50.	Bearing Manufacture	**Skf**
	51.	Bearing DE Size	
	52.	Bearing DE Type	**NU 215**
	53.	DE Bearing Qty.	**1**
	54.	Bearing ODE Size	**6215 2Z/C3**
	55.	Bearing ODE Type	**regular ball bearing**
	56.	ODE Bearing Qty.	**1**
	57.	Insulated Bearing	**no**
	58.	Lubrication Type	**grease/oil**
●	59.	Grease Condition	**(F) Fail**
●	60.	Bearing Retainers	**(Y) Yes** P80

	61.	Shaft Grounding Device	**(NA) Not Applicable**
●	62.	DE Seal	**(Y) Yes**
		Replacement seal provided by customer	
	63.	DE Seal Type/Size	
	64.	ODE Seal	

65.	ODE Seal Type/Size	

Root Cause of Failure

66.	Component Failure	**d.e. seal**
67.	Cause of Failure ***Wear***	
68.	Comments ***Stator windings check good.***	
69.	Service Technician	**Terrence. Holland**



Machine Fit Inspection Report

●	70.	Shaft Run Out	**(P) Pass**
	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	**2.9534 "**
	75.	DE Initial Shaft Bearing Fit Size 2	**2.9534 "**
	76.	DE Initial Shaft Bearing Fit Size 3	**2.9534 "**
	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	**2.9536 "**
	82.	ODE Initial Shaft Bearing Fit Size 2	**2.9536 "**
	83.	ODE Initial Shaft Bearing Fit Size 3	**2.9536 "**
	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	**5.1184 "**
	95.	DE Initial Endbell Fit Size 2	**5.1183 "**
	96.	DE Initial Endbell Fit Size 3	**5.1184 "**
	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	**5.1184 "**
106.	ODE Initial Endbell Fit Size 2	**5.1185 "**
107.	ODE Initial Endbell Fit Size 3	**5.1185 "**
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	**(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