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

AC Recondition Repair Report

FolderID: 98406
FormID: 11045213

Union Pacific-Vine St 10945
1020 N. Vine Street
North Liittle Rock, AR

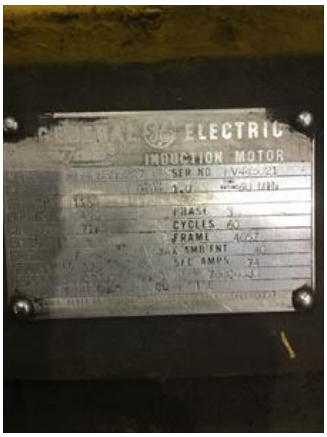
Priorities Found: **3 - High** **11 - Good**

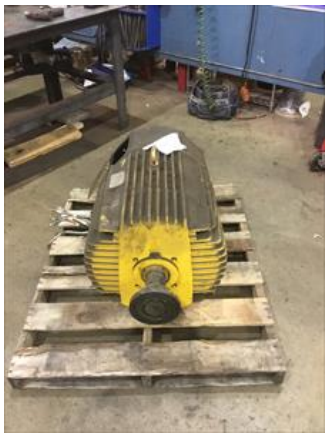
General

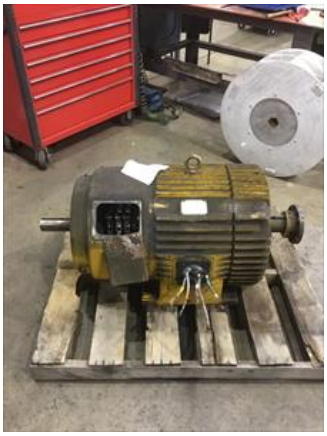
1.	Job Number	**98406**
2.	Report Date	**07/08/2021**
3.	Customer	**10945**

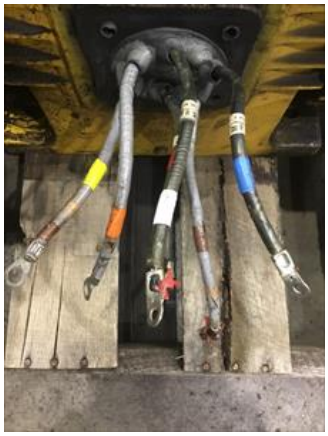
Name Plate Information

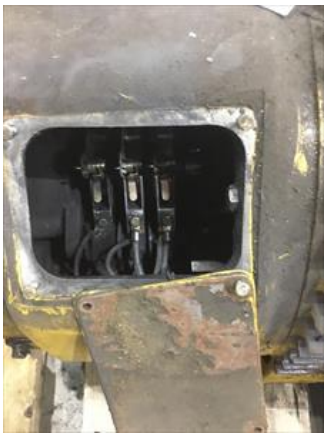
4.	Manufacturer	**GE**	P5

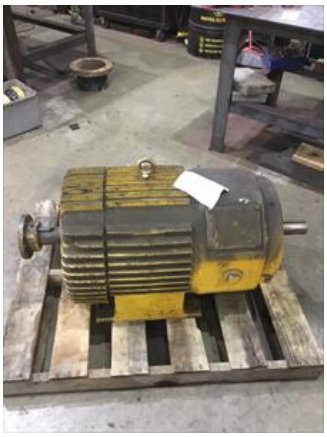


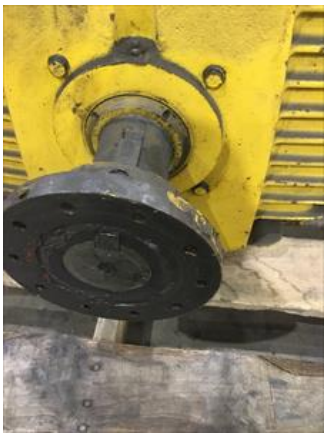


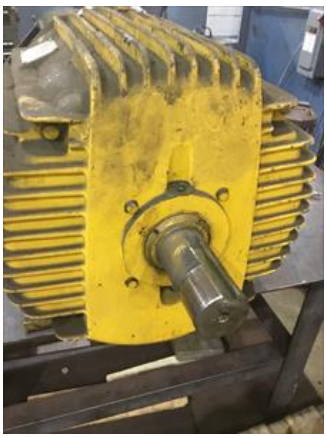


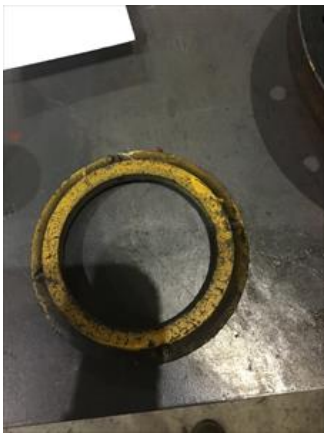


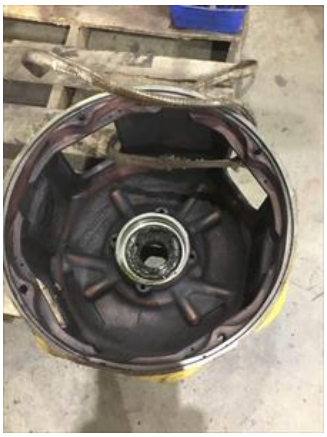


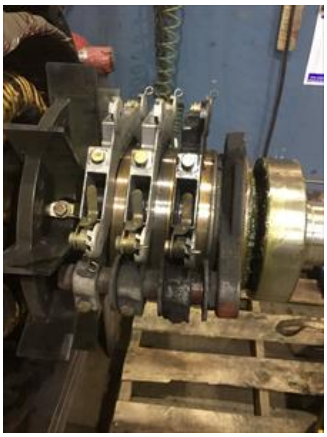


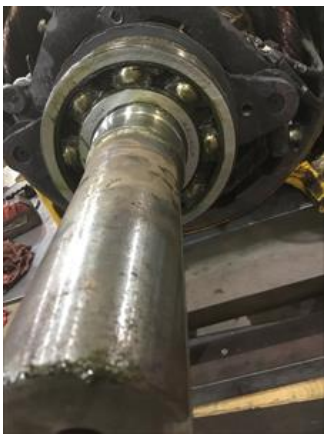


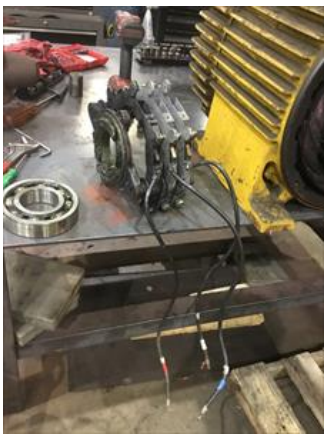


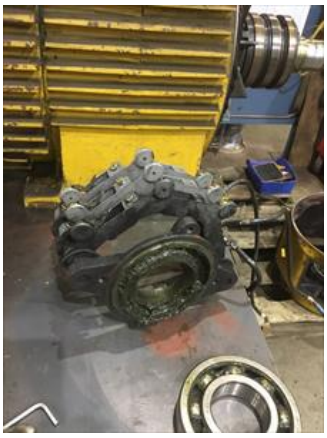


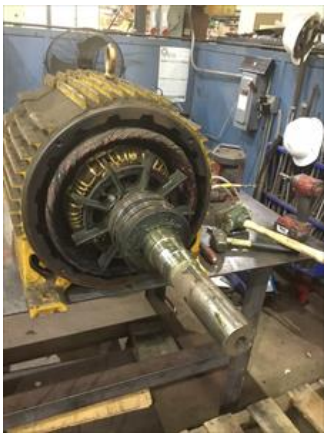


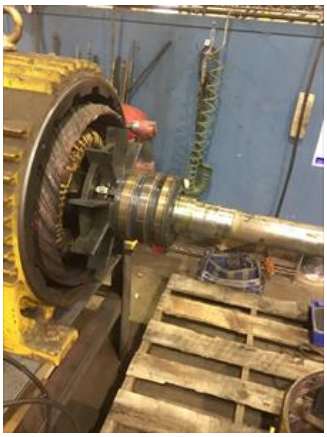


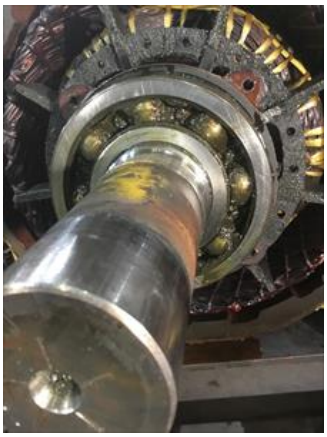


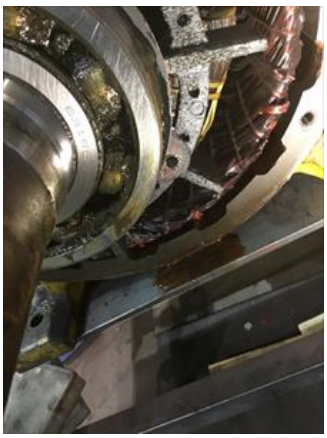


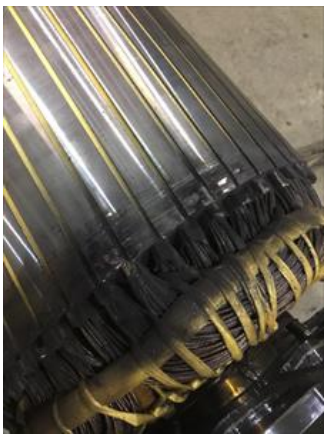


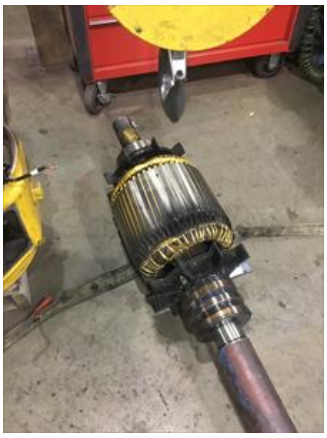


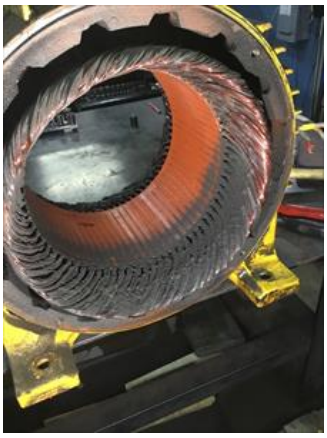










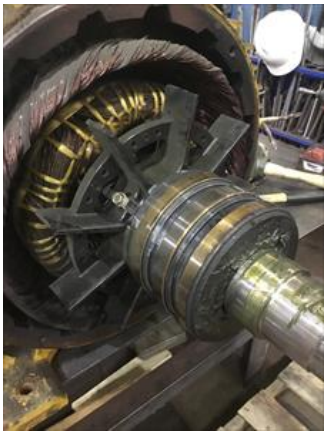


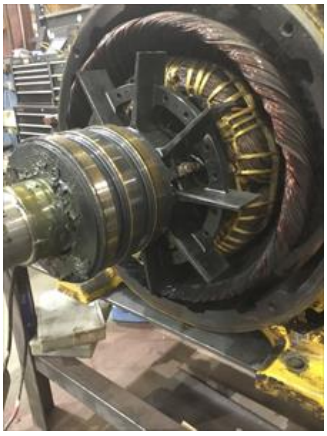
5.	Model	**5MP405SN3227**
6.	Serial Number	**KV443021**
7.	Horsepower	**60**
8.	KW	
9.	Volts	**460**
10.	Amps	**71.5**
11.	RPM	**1160**
12.	Frame	**405Z**
13.	Enclosure	**TENV**
14.	Cycles	**60**
15.	Phase	**3**
16.	Service Factor	**1.0**
17.	Motor Mount Position	

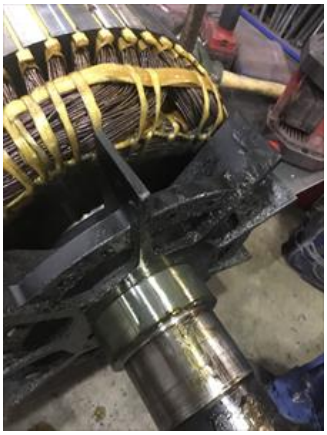
Initial Inspection

18.	Number of Leads	
19.	Lead Length	
20.	Lead Size	
21.	Lead Condition	
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	**no**
29.	Bearing Rtd's	
30.	Bearing Rtd's Condition	
31.	Contamination	
	Grease dirty/ contaminated	
32.	Frame Condition	**(P) Pass**

33.	Fan Condition	**(P) Pass**	P109

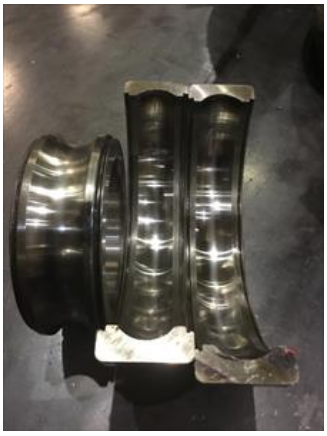




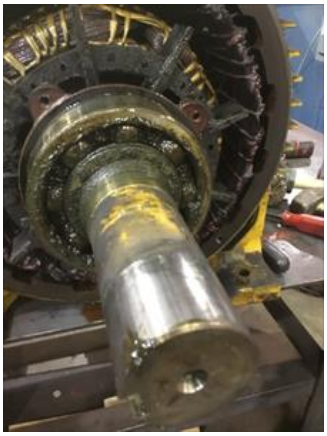


34.	Broken or missing components	
Initial Electric Test		
35.	Resistance to Ground	
36.	Winding Resistance 1-2	
37.	Winding Resistance 2-3	
38.	Winding Resistance 1-3	
39.	Resistive Imbalance	
40.	Hi-Pot	
41.	Surge Test	**(F) Fail**
	Stator failed surge test, but the rotor passed.	
42.	Stator Condition	**good**
43.	Failure Location	**stator windings**
Initial Rotor Inspection		
44.	Rotor Type	**wound rotor**
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		

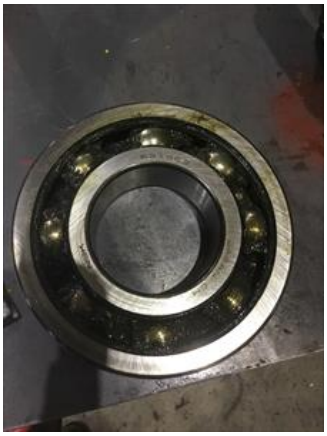
50.	Bearing Manufacture	**NSK**	P1

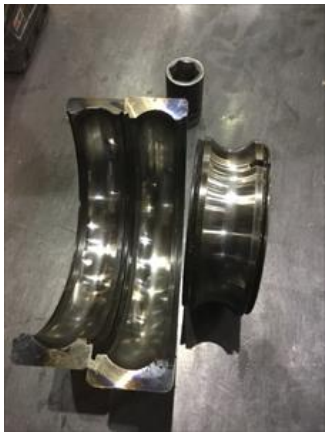


51.	Bearing DE Size	**6316 C3**	P15

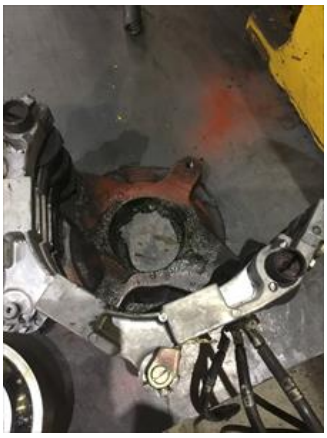


52.	Bearing DE Type	**regular ball bearing**	
53.	DE Bearing Qty.	**1**	
54.	Bearing ODE Size	**6314/C3**	P43





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**	
60.	Bearing Retainers	**(Y) Yes**	P80



	61.	Shaft Grounding Device	
●	62.	DE Seal	**(Y) Yes**
	63.	DE Seal Type/Size	**dust seal**
	64.	ODE Seal	
	65.	ODE Seal Type/Size	

Root Cause of Failure

	66.	Component Failure	**stator windings shorted coil to coil**
	67.	Cause of Failure ***Coil to coil short on stator windings.***	
	68.	Comments ***Rotor assembly passed all electrical tests.***	
	69.	Service Technician	**Terrence. Holland**

Machine Fit Inspection Report

●	70.	Shaft Run Out	**(P) Pass**
	71.	Initial Shaft Run Out	**0.002 "**
	72.	Final Shaft Run Out	
●	73.	DE Bearing Shaft Fit	**(P) Pass**
	74.	DE Initial Shaft Bearing Fit Size 1	**3.15 "**
	75.	DE Initial Shaft Bearing Fit Size 2	**3.15 "**
	76.	DE Initial Shaft Bearing Fit Size 3	**3.1549 "**
	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	**2.7565 "**
	82.	ODE Initial Shaft Bearing Fit Size 2	**2.7565 "**
	83.	ODE Initial Shaft Bearing Fit Size 3	**2.7565 "**
	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	**6.6939 "**
	95.	DE Initial Endbell Fit Size 2	**6.6939 "**
	96.	DE Initial Endbell Fit Size 3	**6.6938 "**
	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**
	105.	ODE Initial Endbell Fit Size 1	**5.907 "**
	106.	ODE Initial Endbell Fit Size 2	**5.907 "**
	107.	ODE Initial Endbell Fit Size 3	**5.907 "**
	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	
	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