



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 Little Rock, AR

Priorities Found: ● 3 - High ● 14 - Good

General

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

Name Plate Information

4. Manufacturer	GE	P5
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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	
<i>Grease dirty/ contaminated</i>	
● 32. Frame Condition	(P) Pass



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


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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	<i>Coil to coil short on stator windings.</i>
68.	Comments	<i>Rotor assembly passed all electrical tests.</i>
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 Final Shaft Bearing Fit Size 1	
78.	DE Final Shaft Bearing Fit Size 2	
79.	DE Final 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 Final Shaft Bearing Fit Size 1	
85.	ODE Final Shaft Bearing Fit Size 2	
86.	ODE Final Shaft Bearing Fit Size 3	

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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 Final 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. Final 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	5.9057 "	P149
			
	109. ODE Final Endbell Fit Size 2	5.9057 "	
	110. ODE Final Endbell Fit Size 3	5.9057 "	
	111. ODE Endbell Fit Insulated		
	112. ODE Endbell Air Seal Fit		
	113. ODE Initial Endbell Seal Fit Size		
	114. ODE Final Endbell Seal Fit Size		
●	115. Foot Flatness	(P) Pass	
●	116. Foot Condition	(P) Pass	
●	117. Flange Condition	(P) Pass	
	118. Service Technician	Terrence. Holland	

Terrence Holland

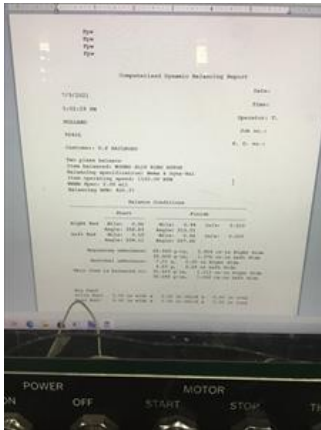
Balancing Report



119. Balance Type

nema standard

P6



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

Terrence. Holland

Terrence Holland

Assembly and Final Test



127. Meggar Testing Reading

● 128. Surge Test

(P) Pass

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

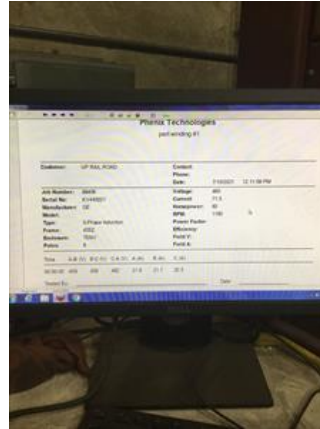
140. DE Vertical Vibration Reading

141. DE Axial Vibration Reading

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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	Degrees F.
155. Temp at 50 minutes	
156. Temp at 55 minutes	
157. Temp at 60 minutes	
● 158. Motor Paint	(P) Pass P136







159. Service Technician

Terrence. Holland

Terrence Holland