



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

AC Recondition Repair Report

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Highland Pellets (012194)
5601 Industrial Dr North
Pine Bluff, AR 71602

Priorities Found: ● 2 - High ● 15 - Good

General

1. Job Number	98463
2. Report Date	07/19/2021
3. Customer	12194

Name Plate Information

4. Manufacturer	NORD	P5
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




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5. Model	SK132MP/4CUSTW
6. Serial Number	36813784
7. Horsepower	10
8. KW	
9. Volts	460
10. Amps	26.7
11. RPM	1765
12. Frame	
13. Enclosure	TEFC
14. Cycles	60 HZ
15. Phase	3 PH

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16.	Service Factor	1.15	
17.	Motor Mount Position		
Initial Inspection			
18.	Number of Leads	9	P13
			
19.	Lead Length		
20.	Lead Size		
	21. Lead Condition	(P) Pass	
	22. Lead Markings	1-9	
	23. Lug Size, Condition, and Type		
	24. Winding RTD's		
	25. Winding Rtd's Condition		
	26. Shaft Run Out		
	27. Does Shaft Turn Freely	no	
	28. Does Shaft Have Visible Damage	no	P94
			
	29. Bearing Rtd's		
	30. Bearing Rtd's Condition		
	31. Contamination		
	Water		
	32. Frame Condition	(P) Pass	P106


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● 33. Fan Condition (P) Pass P109



34. Broken or missing components
Connection block terminal broken

Initial Electric Test 	
35. Resistance to Ground	Mohm
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

42. Stator Condition

pass

P65



43. Failure Location

windings shorted due to water.

P68



Initial Rotor Inspection



44. Rotor Type

squirrel cage laminate

P4



45. Air Gap <10% Variation

46. Number of Rotor Bars

28

47. Number of Broken Rotor Bars

0

● 48. Growler Test

(P) Pass



Mechanical Inspection



50. Bearing Manufacture	SKF	
51. Bearing DE Size	6308 2Z	
52. Bearing DE Type	regular ball bearing	
53. DE Bearing Qty.	1	
54. Bearing ODE Size	6308 2Z/C3	
55. Bearing ODE Type	1	
56. ODE Bearing Qty.	1	
57. Insulated Bearing	no	
58. Lubrication Type	grease	
59. Grease Condition	(F) Fail	
<div> <i>Water contaminated.</i> </div>		
60. Bearing Retainers	(NA) Not Applicable	
61. Shaft Grounding Device	(NA) Not Applicable	
62. DE Seal	(Y) Yes	
63. DE Seal Type/Size	40*62*7	P90





Root Cause of Failure

- | | |
|------------------------|------------------------------------------------------------------------------------------------------------------|
| 66. Component Failure | windings |
| 67. Cause of Failure | <i>Moisture inside the stator windings.</i> |
| 68. Comments | <i>Motor was wet inside the stator as indicated by numerous rust spots on the rotor and the stator windings.</i> |
| 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 | 1.575 " |
| 75. DE Initial Shaft Bearing Fit Size 2 | 1.575 " |
| 76. DE Initial Shaft Bearing Fit Size 3 | 1.5751 " |
| 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 | 1.575 " |
| 82. ODE Initial Shaft Bearing Fit Size 2 | 1.575 " |
| 83. ODE Initial Shaft Bearing Fit Size 3 | 1.575 " |
| 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 | |

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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	3.5436 "
95.	DE Initial Endbell Fit Size 2	3.5436 "
96.	DE Initial Endbell Fit Size 3	3.5435 "
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	(P) Pass
105.	ODE Initial Endbell Fit Size 1	3.544 "
106.	ODE Initial Endbell Fit Size 2	3.5442 "
107.	ODE Initial Endbell Fit Size 3	3.5443 "
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 Final Endbell Seal Fit Size	
115.	Foot Flatness	(NA) Not Applicable
116.	Foot Condition	(NA) Not Applicable
117.	Flange Condition	(P) Pass

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118. Service Technician

Terrence. Holland

Balancing Report

119. Balance Type

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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