



AC Inspection as Found

Amcor (010764)
3033 East 16th St.
Russellville, AR 72802

FolderID: 103478
FormID: 21536197

AC Inspection - Rev. 2

Location: LITTLE ROCK MOTOR SHOP

Serial Number: 160009

Description: 2.2KW HEBEI W/ GARDNER
DENVER PUMP

Hi-Speed Job Number: 103478

Manufacturer: Other

Product Number: M: ITT0G1ACCCNE08C000

Spec/ID #: PART: 10102105100

Serial Number: 160009

HP/kW: 2.2 (kW)

Voltage: 230 / 460

Phase: Three

Hz: 60 (Hz)

Repair Stage: Final

Priorities Found: ● 6 - High ● 5 - Good

Overall Condition



- Report Date **09/11/2024**
- Nameplate Picture **P37**



- Photos of all six sides of the machine. **P45**



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4.	Describe the Overall Condition of the Equipment as Received <i>Needs rebuilt</i>	
5.	Distance from the end of the shaft to the Coupling/Sheave <i>Na</i>	inches
6.	Report Date [COPY]	09/23/2024
Initial Mechanical/Electrical		
7.	Does Shaft Turn Freely?	(Y) Yes
8.	Does the shaft require T.I.R in Lathe to identify additional repairs?	(No) No
9.	Does Shaft Have Visible Damage?	(No) No
10.	Assembled Shaft Runout	0.001 Inches
11.	Assembled Shaft End Play	0 inches
12.	Air Gap Variation <10% <i>Na</i>	
13.	Lead Condition	(P) Pass
14.	Lead Length	3 Inches
15.	Does it have Lugs?, If so what is the Stud Size? <i>Same size as wire</i>	(Yes) Yes
16.	Lead Numbers	1-9
17.	Stator Temperature Detector Rating and Function	
	Quantity	Rating
		Quantity Passed
	<i>Na</i>	

18. Bearing Temperature Detector Rating and Function			
Quantity		Rating	Quantity Passed
Na			
19. Frame Condition			pass
20. Fan Condition			(P) Pass
21. Heater Quantity, Ratings			
Quantity		Volts/Watts	Pass/Fail
Na			
22. Broken or Missing Components			
No			
Initial Electrical Inspection			
23. Insulation Resistance/Megger			2000 Megohms
24. Winding Resistance			
1-2		1-3	2-3
0.2		0.2	0.2
25. Perform Surge Test			(P) Pass
			P57
<div></div>			
26. Number of Stator Slots			36
27. Stator Condition			good
28. Stator Thermistors/Ohms			na
29. Stator Overloads/Ohms			na
Mechanical Inspection			

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30.	Drive End Bearing Brand	c&u
31.	Drive End Bearing Number-	6206z
32.	Drive End Bearing Qty.	1
33.	Drive End Bearing Type	(Ball) Ball Bearing
34.	Drive End Lubrication Type	(Grease) Grease Lubricated
35.	Drive End Bearing Insulation or Grounding Device?	no
36.	Drive End Wavy Washer/Snap-Ring Other Retention Device?	snap ring
37.	Drive End Bearing Condition	worn
38.	Opposite Drive End Bearing Brand	c&u
39.	Opposite Drive End Bearing Number-	6206z
40.	Opposite Drive End Bearing Qty.	1
41.	Opposite Drive End Bearing Type	(Ball) Ball Bearing
42.	Opposite Drive End Lubrication Type	(Grease) Grease Lubricated
43.	Opposite Drive End Bearing Insulation or Grounding Device?	no
44.	Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?	wavy washer
45.	Opposite Drive End Bearing Condition	worn
46.	Drive End Seal	na
47.	Opposite Drive End Seal	na
48.	DE Sleeve Bearing Inside Diameter	
	0 degrees	120 degrees 240 degrees
	Na	
49.	DE Sleeve Bearing Outside Diameter	
	0 degrees	120 degrees 240 degrees
	Na	
50.	DE Sleeve Bearing Housing Inside Diameter	
	0 degrees	120 degrees 240 degrees
	Na	
51.	DE Sleeve Bearing to Housing Clearance	
	0 degrees	120 degrees 240 degrees
	Na	
52.	ODE Sleeve Bearing Inside Diameter	
	0 degrees	120 degrees 240 degrees
	Na	
53.	ODE Sleeve Bearing Outside Diameter	
	0 degrees	120 degrees 240 degrees
	Na	
54.	ODE Sleeve Bearing Housing Inside Diameter	
	0 degrees	120 degrees 240 degrees
	Na	

55.	ODE Sleeve Bearing to Housing Clearance		
	0 degrees	120 degrees	240 degrees
	<div> <div></div> Na </div>		
Rotor Inspection			
56.	Rotor Type/Material (Squirrel Aluminum) Squirrel Cage Aluminum Die Cast		
57.	Growler Test (Pass) Pass		
58.	Number of Rotor Bars 32		
59.	Rotor Condition		
	<div> <div></div> Good </div>		
60.	List the Parts needed for the Repair Below 6206z x2 New seal New retaining bolt		
61.	Signature of Technician that Disassembled Motor		Trevor Hall
			
Mechanical Fits- Rotor			
62.	Shaft Runout 0.001 inches		
63.	Rotor Runout		
	Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing
	<div> <div></div> Good </div>		
64.	Coupling Fit Closest to Bearing Housing		
	0 Degrees	90 Degrees	120 Degrees
	1.125	1.125	1.125
65.	Coupling Fit Closest to the end of the Shaft		
	0 Degrees	60 Degrees	120 Degrees
	1.125	1.125	17125
66.	Drive End Bearing Shaft Fit		
	0 Degrees	60 Degrees	120 Degrees
	1.1809	1.1809	1.1809
67.	Drive End Bearing Shaft Fit Condition		(F) Fail
	<div> <div></div> Undersize </div>		
68.	Opposite Drive End Bearing Shaft Fit		
	0 Degrees	60 Degrees	120 Degrees
	1.1808	1.1808	1.1808
69.	Opposite Drive End Bearing Shaft Fit Condition		(F) Fail
	<div> <div></div> Undersize </div>		
70.	Shaft Air Seal Fits		
	Drive End Air Seal	Opposite Drive End Air Seal	
	good	good	
Mechanical Fits- Bearing Housings			

71.	Drive End - Endbell Bearing Fit		
	0 Degrees	60 Degrees	120 Degrees
	2.4418	2.4418	2.4418
72.	Drive End - Endbell Bearing Fit Condition		(F) Fail
	Oversized		
73.	Opposite Drive End - Endbell Bearing Fit		
	0 Degrees	60 Degrees	120 Degrees
	2.4431	2.4435	2.4424
74.	Opposite Drive End - Endbell Bearing Fit Condition		(F) Fail
	Egg shape		
75.	Bearing Cap Condition		
	Drive End Bearing Cap	Opposite Drive End Bearing Cap	
	good		
76.	End Bell Air Seal Fits		
	Drive End Air Seal	Opposite Drive End Air Seal	
	good	good	
77.	List Machine Work Needed Below		
	Both shaft fits, both endbells. Drive endbell is only .0002 over max		
78.	Technician		Trevor Hall
			
Root Cause of Failure			
79.	Failure locations		
	Seals, bearings, retaining bolt.		
80.	Root cause of failure		
	Seal came apart		
Dynamic Balance Report			
81.	Rotor Weight and Balance Grade		
	Rotor Weight	Balance Grade	
82.	Initial Balance Readings		
	Drive End	Opposite Drive End	
83.	Final Balance Readings		
	Drive End	Opposite Drive End	
84.	Technician		
Rewind			
85.	Core Test Results - Watts loss per Pound		
	Pre-Burnout	Post Burnout	
86.	Core Hot Spot Test		
	Pre-Burnout	Post-Burnout	

87.	Post Rewind Electrical Test- Insulation Resistance		
88.	Post Rewind Polarization Index		
89.	Post Rewind Winding Resistance		
	1-2	1-3	2-3
90.	Post Rewind Surge Test		
91.	Post Rewind Hi-Pot		
92.	Technician		
Mechanical Fits- Rotor - Post Repair			
93.	Shaft Runout Post Repair		
94.	Rotor Runout Post Repair		
	Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing
95.	Coupling Fit Closest to Bearing Housing Post Repair		
	0 Degrees	90 Degrees	120 Degrees
96.	Coupling Fit Closest to the end of the Shaft Post Repair		
	0 Degrees	60 Degrees	120 Degrees
97.	Drive End Bearing Shaft Fit Post Repair		
	0 Degrees	60 Degrees	120 Degrees
98.	Opposite Drive End Bearing Shaft Fit Post Repair		
	0 Degrees	60 Degrees	120 Degrees
99.	Shaft Air Seal Fits Post Repair		
	Drive End Air Seal	Opposite Drive End Air Seal	
100.	Shaft Repair Sign-off		
Mechanical Fits- Bearing Housings - Post Repair			
101.	Drive End - Endbell Bearing Fit Post Repair		
	0 Degrees	60 Degrees	120 Degrees
102.	Opposite Drive End - Endbell Bearing Fit Post Repair		
	0 Degrees	60 Degrees	120 Degrees
103.	Bearing Cap Condition Post Repair		
	Drive End Bearing Cap	Opposite Drive End Bearing Cap	
104.	End Bell Air Seal Fits Post Repair		
	Drive End Air Seal	Opposite Drive End Air Seal	
105.	DE Sleeve Bearing Inside ID Post Repair		
	Measure 1	Measure 2	Measure 3

106. DE Sleeve Bearing Outside ID Post Repair			
Measure 1	Measure 2	Measure 3	
107. DE Sleeve Bearing Inside OD Post Repair			
Measure 1	Measure 2	Measure 3	
108. DE Sleeve Bearing Outside OD Post Repair			
Measure 1	Measure 2	Measure 3	
109. End Bell Repair Sign-off			
110. ODE Sleeve Bearing Inside ID Post Repair			
Measure 1	Measure 2	Measure 3	
111. ODE Sleeve Bearing Outside ID Post Repair			
Measure 1	Measure 2	Measure 3	
112. ODE Sleeve Bearing Inside OD Post Repair			
Measure 1	Measure 2	Measure 3	
113. ODE Sleeve Bearing Outside OD Post Repair			
Measure 1	Measure 2	Measure 3	
Assembly			
114. QC Check All Parts for Cleanliness Prior to Assembly			
115. Photograph All Major Components prior to assembly			
116. Final Insulation Resistance Test			
117. Assembled Shaft Endplay			
118. Assembled Shaft Runout			
119. Test Run Voltage			
Volts	Volts	Volts	
120. Test Run Amperage			
Amps	Amps	Amps	
121. Drive End Vibration Readings - Inches Per Second			
Horizontal	Vertical	Axial	
122. Opposite Drive End Vibration Readings - Inches Per Second			
Horizontal	Vertical	Axial	
123. Ambient Temperature - Fahrenheit			
124. Drive End Bearing Temps - Fahrenheit			
5 Minutes	10 Minutes	15 Minutes	
125. Drive End Bearing Temps - Fahrenheit 20-30 Minutes			
20 Minutes	25 Minutes	30 Minutes	

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126.	Drive End Bearing Temps - Fahrenheit 35-45 Minutes		
	35 Minutes	40 Minutes	45 Minutes
127.	Drive End Bearing Temps - Fahrenheit 50-60 Minutes		
	50 Minutes	55 Minutes	60 Minutes
128.	Opposite Drive End Bearing Temps - Fahrenheit		
	5 Minutes	10 Minutes	15 Minutes
129.	Opposite Drive End Bearing Temps - Fahrenheit 20-30 Minutes		
	20 Minutes	25 Minutes	30 Minutes
130.	Opposite Drive End Bearing Temps - Fahrenheit 35-45 Minutes		
	35 Minutes	40 Minutes	45 Minutes
131.	Opposite Drive End Bearing Temps - Fahrenheit 50-60 Minutes		
	50 Minutes	55 Minutes	60 Minutes
132.	Stator Temperatures- Fahrenheit		
	5 Minutes	10 Minutes	15 Minutes
133.	Stator Temperatures- Fahrenheit 20-30 Minutes		
	20 Minutes	25 Minutes	30 Minutes
134.	Stator Temperatures- Fahrenheit 35-45 Minutes		
	35 Minutes	40 Minutes	45 Minutes
135.	Stator Temperatures- Fahrenheit 50-60 Minutes		
	50 Minutes	55 Minutes	60 Minutes
136.	Document Final Condition with Pictures after paint		
137.	Final Pics and QC Review		