



AC Recondition As Found

Unimin Corp - Covia(12108)

421 Main St.

Guion, AR 72540

FolderID: 99826
FormID: 13650161

AC Recondition - Rev. 2

Location: Shop

Serial Number: S9043405-001 004

Description: 20HP BALDOR 1200RPM 286T

Hi-Speed Job Number: 99826

Manufacturer: Baldor

Product Number: CP4102T-4

Spec/ID #: P28G4673A

Serial Number: S9043405-001 004

HP/kW: 20 (HP)

RPM: 1175 (RPM)

Frame: 286

Voltage: 460

Current: 26.9

Phase: Three

Hz: 60 (Hz)

Service Factor: 1.15

Enclosure: TEFC

J-box Included: Complete

Coupling/Sheave: None

Date Received: 05/20/2022

Bearing RTDs: No



Stator RTDs: No

Repair Stage: Teardown Inspection

Heaters: No

Winding Type : Random Wound

Bearing Type: Rolling Element

Priorities Found:  2 - High  2 - Good

Overall Condition



1. Report Date



3. Describe the Overall Condition of the Equipment as Received

Initial Mechanical/Electrical



4. Does Shaft Turn Freely?
5. Does Shaft Have Visible Damage?
6. Assembled Shaft Runout
7. Assembled Shaft End Play
8. Air Gap Variation <10%
9. Lead Condition

P31



10. Lead Length

15 Inches

11. Frame Condition

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13. Broken or Missing Components

Initial Electrical Inspection



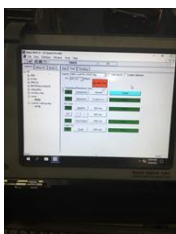
14. Insulation Resistance/Megger

15. Winding Resistance

1-2

1-3

2-3



17. Stator Condition

pass

P39



Mechanical Inspection



18. Drive End Bearing Number-






6310

P8



19. Drive End Bearing Qty.

1

20. Drive End Bearing Type	(Ball) Ball Bearing	P20
		
21. Drive End Lubrication Type	(Grease) Grease Lubricated	P27
		
22. Drive End Bearing Insulation or Grounding Device?	none	
23. Drive End Wavy Washer/Snap-Ring Other Retention Device?	none	
24. Drive End Bearing Condition	worn/grease dirty	P41
		
25. Opposite Drive End Bearing Number-	6310	
26. Opposite Drive End Bearing Qty.	1	
27. Opposite Drive End Bearing Type	(Ball) Ball Bearing	P49
		
28. Opposite Drive End Lubrication Type	(Grease) Grease Lubricated	
29. Opposite Drive End Bearing Insulation or Grounding Device?	none	
30. Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?	yes	P54
		
31. Opposite Drive End Bearing Condition		

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32.	Drive End Seal		
33.	Opposite Drive End Seal		
Rotor Inspection			
34.	Rotor Type/Material		(Squirrel Aluminum) Squirrel Cage Aluminum Die Cast
			
35.	Growler Test		(Pass) Pass
36.	Number of Rotor Bars		61
37.	Rotor Condition		good
38.	List the Parts needed for the Repair Below		
39.	Signature of Technician that Disassembled Motor		Terrence. Holland
			
Mechanical Fits- Rotor			
40.	Shaft Runout		
41.	Rotor Runout		
	Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing
42.	Coupling Fit Closest to Bearing Housing		
	0 Degrees	90 Degrees	120 Degrees
43.	Coupling Fit Closest to the end of the Shaft		
	0 Degrees	60 Degrees	120 Degrees
44.	Drive End Bearing Shaft Fit		
	0 Degrees	60 Degrees	120 Degrees
45.	Drive End Bearing Shaft Fit Condition		
46.	Opposite Drive End Bearing Shaft Fit		
	0 Degrees	60 Degrees	120 Degrees
47.	Opposite Drive End Bearing Shaft Fit Condition		
48.	Shaft Air Seal Fits		
	Drive End Air Seal	Opposite Drive End Air Seal	
Mechanical Fits- Bearing Housings			

49. Drive End - Endbell Bearing Fit

P2

0 Degrees

60 Degrees

120 Degrees

Bad. Lip worn in fit.



50. Drive End - Endbell Bearing Fit Condition

(F) Fail

51. Opposite Drive End - Endbell Bearing Fit

P19

0 Degrees

60 Degrees

120 Degrees

Lip worn in fit.



52. Opposite Drive End - Endbell Bearing Fit Condition

(F) Fail

53. Bearing Cap Condition

P29

Drive End Bearing Cap

Opposite Drive End Bearing Cap



54. End Bell Air Seal Fits

Drive End Air Seal

Opposite Drive End Air Seal

55. List Machine Work Needed Below

56. Technician

Terrence. Holland

Root Cause of Failure

57. Failure locations

58. Root cause of failure

Contaminated grease and both housing fits bad