

## **AC Recondition As Found**

**Gravel Ridge Sewer District 213** 

7442 Gibson Road Jacksonville, AR 72078

Location:	Shop	
Serial Number:	9605486-901 R2100762	

Description:15HP US Motors 1200RPM 284VPZ Vertical

6 - Good

Date Received:

**Repair Stage:** 

Bearing Type:

Hi-Speed Job Number:	99722
Manufacturer:	US Motors/Nidec
Serial Number:	9605486-901 R2100762
HP/kW:	15 (HP)
RPM:	1150 (RPM)
Frame:	284VPZ
Voltage:	230 / 460
Current:	38.8/19.4
Phase:	Three
Hz:	60 (Hz)
Service Factor:	1.15
Enclosure:	WPI
J-box Included:	None

04/26/2022

**Teardown Inspection** 

**Rolling Element** 

Priorities Found: 🔵 1 - High

**Overall Condition** 

Report Date 1.

FolderID: 99722 FormID: 13428303

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inches



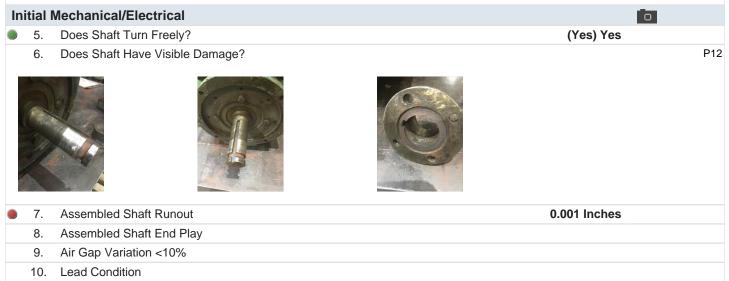


Describe the Overall Condition of the Equipment as Received
Distance from the end of the shaft to the Coupling/Sheave
3/16" S.O. Both coupling set screws are missing. Coupling key missing.









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P21

P33

11	Lead Length		8 Inches	
11. 12.		Poting and Eurotian	8 incres	
12.	•	-	Questity Decod	
	Quantity	Rating	Quantity Passed	
13.	Bearing Temperature Detecto	r Rating and Function		
	Quantity	Rating	Quantity Passed	
		-		
14.	Frame Condition		pass	
15.	Fan Condition		(N) NA	
16.	Heater Quantity, Ratings			
	Quantity	Volts/Watts	Pass/Fail	
17.	Broken or Missing Componen	ts	coupling missing both set screws	
Initial	Electrical Inspection			0
18.	Insulation Resistance/Megger			
19.	Winding Resistance			
	1-2	1-3	2-3	
20.	Perform Surge Test		(NA) Not Applicable	P35
21.			rewind	
	anical Inspection			0
22.	Drive End Bearing Number-		6311Z	P8
23.	Drive End Bearing Qty.		1	
24.	Drive End Bearing Type		(Ball) Ball Bearing	P20
25.	Drive End Lubrication Type		(Grease) Grease Lubricated	

26.	Drive End Bearing Insulation or Grounding Device?		
20.	Drive End Wavy Washer/Snap-Ring Other Retention Device?		
28.	Drive End Bearing Condition		P43
29.	Opposite Drive End Bearing Number-	6209 D	P47
30.	Opposite Drive End Bearing Qty.	1	
31.	Opposite Drive End Bearing Type	(Ball) Ball Bearing	
32.	Opposite Drive End Lubrication Type	(Grease) Grease Lubricated	
33.	Opposite Drive End Bearing Insulation or Grounding Device?		
34.	Opposite Drive End Wavy Washer/Snap-Ring Other Retention D	evice?	
C			
36.	Drive End Seal		
37.	Opposite Drive End Seal		
Rotor I	nspection		
38.	Rotor Type/Material	(Squirrel Aluminum) Squirrel Cage Aluminum Die Cast	
39.	Growler Test	(Pass) Pass	
40.	Number of Rotor Bars		
41.	Rotor Condition	pass	
42.	List the Parts needed for the Repair Below		
43.	Signature of Technician that Disassembled Motor	Terrence. Holland	
	nical Fits- Rotor		

	44.	Shaft Runout		0.001 inches	
	45.				
	.0.	Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing	
		Drive End Deaning Fit	Notor Body	Opposite Drive End Dearing	
	46.	Coupling Fit Closest to Bearing Ho	ousing		
		0 Degrees	90 Degrees	120 Degrees	
	47.	Coupling Fit Closest to the end of	the Shaft		
		0 Degrees	60 Degrees	120 Degrees	
	48.	Drive End Bearing Shaft Fit			
		0 Degrees	60 Degrees	120 Degrees	
		2.1655	2.1655	2.1655	
	49.	Drive End Bearing Shaft Fit Condi	tion	(P) Pass	
	50.	Opposite Drive End Bearing Shaft	Fit		
		0 Degrees	60 Degrees	120 Degrees	
		1.7723	1.7723	1.7721	
	51.	Opposite Drive End Bearing Shaft	Fit Condition	(P) Pass	
	52.	Shaft Air Seal Fits			
		Drive End Air Seal	Opposite Drive End Air Seal		
Me	echai	nical Fits- Bearing Housings			0
	53.	Drive End - Endbell Bearing Fit			
		0 Degrees	60 Degrees	120 Degrees	
		4.7252	4.725	4.7253	
	54.	Drive End - Endbell Bearing Fit Co		(P) Pass	
	55.	Opposite Drive End - Endbell Bea	ring Fit		
		0 Degrees	60 Degrees	120 Degrees	
		3.3472	3.3472	3.3473	
	56.	Opposite Drive End - Endbell Bea	ring Fit Condition	(P) Pass	
	57.	Bearing Cap Condition			P29
		Drive End Bearing Cap	Opposite Drive End Bearing Cap		
		pass	pass		
Later B					
	X	3			
4					
	58.	End Bell Air Seal Fits			
		Drive End Air Seal	Opposite Drive End Air Seal		
	59.	List Machine Work Needed Below			

60. Technician
Terrence. Holland

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