

# **Motor Shop Repairs**

## **Job Number 99722**

Prepared for Gravel Ridge Sewer District 213

7442 Gibson Road Jacksonville AR 72078

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AC Recondition As Found - Shop

AC Recondition - Rev. 2: 9605486-901 R2100762

1.0



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> FolderID: 99722 FormID: 13428303

## **AC Recondition As Found**

**Gravel Ridge Sewer District 213** 

7442 Gibson Road Jacksonville, AR 72078

#### AC Recondition - Rev. 2

Completed by: Motor Shop LR 3 on 05/24/2022

Location: Shop

**Serial Number:** 9605486-901 R2100762

Description:15HP US Motors 1200RPM 284VPZ

Vertical

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
Date Received:	04/26/2022
Repair Stage:	Final
Bearing Type:	Rolling Element

Priorities Found: 7 - Good

### **Overall Condition**

1. Report Date

#### 2. Nameplate Picture





















- 3. Describe the Overall Condition of the Equipment as Received
- 4. Distance from the end of the shaft to the Coupling/Sheave

3/16" S.O. Both coupling set screws are missing. Coupling key missing.







### Initial Mechanical/Electrical

5. Does Shaft Turn Freely?

(Yes) Yes

inches

#### 6. Does Shaft Have Visible Damage?









Welded and remachined D.E. of shaft.

(Yes) Yes







Machined new flange

<b>7</b> .	Assembled Shaft Runout		0.001 Inches
8.	Assembled Shaft End Play		
9.	Air Gap Variation <10%		
10.	Lead Condition		
11.	Lead Length		8 Inches
12.	Stator Temperature Detector Rating a	nd Function	
	Quantity	Rating	Quantity Passed
13.	Bearing Temperature Detector 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 Components		coupling missing both set screws
Initial	Electrical Inspection		
18.	Insulation Resistance/Megger		
19.	Winding Resistance		
	1-2	1-3	2-3

#### 20. Perform Surge Test





21. Stator Condition rewind

#### **Mechanical Inspection**

#### 22. Drive End Bearing Number-

6311Z



23. Drive End Bearing Qty.

1

24. Drive End Bearing Type

(Ball) Ball Bearing



25. Drive End Lubrication Type

(Grease) Grease Lubricated

- 26. Drive End Bearing Insulation or Grounding Device?
- 27. Drive End Wavy Washer/Snap-Ring Other Retention Device?
- 28. Drive End Bearing Condition



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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 Device?	
35.	Opposite Drive End Bearing Condition	



36. Drive End Seal

37. Opposite Drive End Seal

#### **Rotor Inspection**

38. Rotor Type/Material (Squirrel Aluminum) Squirrel Cage Aluminum Die Cast
 39. Growler Test (Pass) Pass

40. Number of Rotor Bars

**Mechanical Fits- Rotor** 

0 Degrees

41. Rotor Condition pass

42. List the Parts needed for the Repair Below

43. Signature of Technician that Disassembled Motor Terrence. Holland



modification in the first terms of the first terms			
44.	Shaft Runout		0.001 inches
45.	Rotor Runout		
	Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing
46.	46. Coupling Fit Closest to Bearing Housing		
	0 Degrees	90 Degrees	120 Degrees
47.	47. Coupling Fit Closest to the end of the Shaft		

120 Degrees

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60 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 Condition		(P) Pass	
	50.	Opposite Drive End Bearing Shaft Fit			
		0 Degrees	60 Degrees	120 Degrees	
		1.7723	1.7723	1.7721	
		Opposite Drive End Bearing Shaft Fit	Condition	(P) Pass	
	52.	Shaft Air Seal Fits			
		Drive End Air Seal	Opposite Drive End Air Seal		
B.	مامما	nuical Fita Dessina Haveinas			
IV		anical Fits- Bearing Housings			
	53.	Drive End - Endbell Bearing Fit	CO De mass	400 Danies	
		0 Degrees	60 Degrees	120 Degrees	
	E 1	4.7252  Drive End - Endbell Bearing Fit Condi	4.725	4.7253 (P) Pass	
				(r) rass	
	55.	Opposite Drive End - Endbell Bearing		120 Dograda	
		0 Degrees 3.3472	60 Degrees 3.3472	120 Degrees 3.3473	
	56	Opposite Drive End - Endbell Bearing		(P) Pass	
		Bearing Cap Condition	THE CONGRESSION	(1)1 433	
• •		- ·			
		Drive End Rearing Can	Opposite Drive End Rearing Can		
		Drive End Bearing Cap pass	Opposite Drive End Bearing Cap pass		
	58.				
	58.	pass			
		End Bell Air Seal Fits Drive End Air Seal	pass		
	59.	End Bell Air Seal Fits Drive End Air Seal  List Machine Work Needed Below	pass	Torronce Helland	
	59.	End Bell Air Seal Fits Drive End Air Seal	pass	Terrence. Holland	
D	59. 60.	End Bell Air Seal Fits Drive End Air Seal  List Machine Work Needed Below	pass	Terrence. Holland	
D	59. 60.	End Bell Air Seal Fits Drive End Air Seal  List Machine Work Needed Below Technician	pass	Terrence. Holland	
D	59. 60.	End Bell Air Seal Fits Drive End Air Seal  List Machine Work Needed Below Technician  Anic Balance Report	pass	Terrence. Holland	

Opposite Drive End

62. Initial Balance Readings

Drive End

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63.	Final Balance Readings		
	Drive End	Opposite Drive End	
64. Technician			
Rewir	nd		
65.	Core Test Results - Watts loss per Po	ound	
	Pre-Burnout	Post Burnout	
66.	Core Hot Spot Test		
	Pre-Burnout	Post-Burnout	
67.		n Resistance	
	Post Rewind Polarization Index		
69.	Post Rewind Winding Resistance		
	1-2	1-3	2-3
	D . D 10 . T .		
	Post Rewind Surge Test		
71.			
	Technician		
	Cause of Failure		
73.	Failure locations		
	Windings blown		
74.	Root cause of failure		
	Coil to coil short.		
Mecha	anical Fits- Rotor - Post Repair		
75.	Shaft Runout Post Repair		
76.	Rotor Runout Post Repair		
	Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing
77.	Coupling Fit Closest to Bearing House	ing Post Repair	
	0 Degrees	90 Degrees	120 Degrees
78.	Coupling Fit Closest to the end of the	·	
	0 Degrees	60 Degrees	120 Degrees
70	D: E ID : 01 (15) D . D		
79.	Drive End Bearing Shaft Fit Post Rep		
	0 Degrees	60 Degrees	120 Degrees
80.	Opposite Drive End Bearing Shaft Fit	Poet Panair	
80.			400 Dagraca
	0 Degrees	60 Degrees	120 Degrees
81	Shaft Air Seal Fits Post Repair		
01.	Drive End Air Seal	Opposite Drive End Air Seal	
	DIIVE LIIU AII SEAI	Opposite Drive Eriu Ali Sedi	
82.	Shaft Repair Sign-off		
Mechanical Fits- Bearing Housings - Post Repair			
83. Drive End - Endbell Bearing Fit Post Repair			
55.	0 Degrees	60 Degrees	120 Degrees
	o Deglees	oo begrees	120 Deglees

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84. Opposite Drive End - Endbell Bearing Fit Post Repair

0 Degrees 60 Degrees 120 Degrees

85. Bearing Cap Condition Post Repair

Drive End Bearing Cap Opposite Drive End Bearing Cap

86. End Bell Air Seal Fits Post Repair

Drive End Air Seal Opposite Drive End Air Seal

87. End Bell Repair Sign-off

#### **Assembly**

88. Photograph All Major Components prior to assembly



















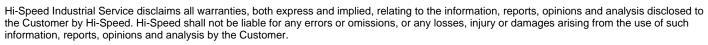
- 89. Final Insulation Resistance Test
- 90. Assembled Shaft Endplay
- 91. Assembled Shaft Runout
- 92. Test Run Voltage

Volts Volts Volts



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93. Test Run Amperage				
	Amps	Amps	Amps	
94.	Drive End Vibration Readings - Inches Per Second			
	Horizontal	Vertical	Axial	
0.5	Opposite Drive Find Vibration Boardin	vo Jackso Dov Cossand		
95.	Opposite Drive End Vibration Reading			
	Horizontal	Vertical	Axial	
96.	Ambient Temperature - Fahrenheit			
	Drive End Bearing Temps - Fahrenhe	it		
	5 Minutes	10 Minutes	15 Minutes	
98.	. Opposite Drive End Bearing Temps - Fahrenheit			
	5 Minutes	10 Minutes	15 Minutes	
99	Stator Temperatures- Fahrenheit			
00.	5 Minutes	10 Minutes	15 Minutes	
	3 Williates	10 Millutes	13 Williates	
100.	Final Test Run Sign-off			
101.	Document Final Condition with Picture	es after paint		
102.	Final Pics and QC Review			
TO THE				





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