



AC Recondition As Found

Lexicon (10257)
8900 Fouche Dam Pike
Little Rock, AR

FolderID: 100065
FormID: 14105415

AC Recondition - Rev. 2

Location: SHOP

Serial Number: 823471B-2

Description: 4HP REULAND 1800/53RPM WEO-215/H400

Hi-Speed Job Number: 100065

Manufacturer: Other

Product Number: 13273

Serial Number: 823471B-2

HP/kW: 4 (HP)

RPM: 1800 (RPM)

Frame: WEO-215/H400

Voltage: 230 / 460

Current: 10.6/5.3

Phase: Three

Hz: 60 (Hz)

Enclosure: TENV

J-box Included: None

Coupling/Sheave: None

Bearing RTDs: No

Stator RTDs: No

Repair Stage: Final

Rewind: Yes

Heaters: No

Winding Type : Random Wound

Bearing Type: Rolling Element

Priorities Found: 1 - High

3 - Good

Overall Condition



- Report Date
- Nameplate Picture

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3. Photos of all six sides of the machine.
4. Describe the Overall Condition of the Equipment as Received


Initial Mechanical/Electrical

- | | |
|------------------------------------|---------|
| 5. Does Shaft Turn Freely? | |
| 6. Does Shaft Have Visible Damage? | (No) No |
| 7. Assembled Shaft Runout | |
| 8. Assembled Shaft End Play | |
| 9. Air Gap Variation <10% | |
| 10. Lead Condition | |
| 11. Lead Length | |
| 12. Frame Condition | |

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13.	Fan Condition	(N) NA	
14.	Broken or Missing Components		
Initial Electrical Inspection			
15.	Insulation Resistance/Megger		
16.	Winding Resistance		
	1-2	1-3	2-3
17.	Perform Surge Test	(F) Fail	
	<i>Rewind stator and rotor.</i>		
18.	Stator Condition	windings blown	
Mechanical Inspection			
19.	Drive End Bearing Number-	6306	
20.	Drive End Bearing Qty.	1	
21.	Drive End Bearing Type	(Ball) Ball Bearing	
22.	Drive End Lubrication Type	(Grease) Grease Lubricated	
23.	Drive End Bearing Insulation or Grounding Device?	none	
24.	Drive End Wavy Washer/Snap-Ring Other Retention Device?	yes	
25.	Drive End Bearing Condition	worn	
26.	Opposite Drive End Bearing Number-	6306	
27.	Opposite Drive End Bearing Qty.	1	
28.	Opposite Drive End Bearing Type	(Ball) Ball Bearing	
29.	Opposite Drive End Lubrication Type	(Grease) Grease Lubricated	
30.	Opposite Drive End Bearing Insulation or Grounding Device?	none	
31.	Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?		
32.	Opposite Drive End Bearing Condition		
33.	Drive End Seal		
34.	Opposite Drive End Seal		
Rotor Inspection			
35.	Rotor Type/Material		
	<i>Wound rotor</i>		
36.	Growler Test		
37.	Number of Rotor Bars		
38.	Rotor Condition	rewind	
39.	List the Parts needed for the Repair Below		
40.	Signature of Technician that Disassembled Motor	Terrence. Holland	
			
Mechanical Fits- Rotor			
41.	Shaft Runout		
42.	Rotor Runout		
	Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing
43.	Coupling Fit Closest to Bearing Housing		
	0 Degrees	90 Degrees	120 Degrees

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44.	Coupling Fit Closest to the end of the Shaft		
	0 Degrees	60 Degrees	120 Degrees
45.	Drive End Bearing Shaft Fit		
	0 Degrees	60 Degrees	120 Degrees
	1.181	1.181	1.1808
46.	Drive End Bearing Shaft Fit Condition (P) Pass		
47.	Opposite Drive End Bearing Shaft Fit		
	0 Degrees	60 Degrees	120 Degrees
	1.1811	1.1812	1.1811
48.	Opposite Drive End Bearing Shaft Fit Condition (P) Pass		
49.	Shaft Air Seal Fits		
	Drive End Air Seal	Opposite Drive End Air Seal	
Mechanical Fits- Bearing Housings			
50.	Drive End - Endbell Bearing Fit		
	0 Degrees	60 Degrees	120 Degrees
	2.8347	2.8348	2.8348
51.	Drive End - Endbell Bearing Fit Condition		
52.	Opposite Drive End - Endbell Bearing Fit		
	0 Degrees	60 Degrees	120 Degrees
	2.8347	2.835	2.8348
53.	Opposite Drive End - Endbell Bearing Fit Condition (P) Pass		
54.	Bearing Cap Condition		
	Drive End Bearing Cap	Opposite Drive End Bearing Cap	
55.	End Bell Air Seal Fits		
	Drive End Air Seal	Opposite Drive End Air Seal	
56.	List Machine Work Needed Below <i>Turn rings on rotor.</i>		
57.	Technician		Terrence. Holland
			
Dynamic Balance Report			
58.	Rotor Weight and Balance Grade		
	Rotor Weight	Balance Grade	
59.	Initial Balance Readings		
	Drive End	Opposite Drive End	
60.	Final Balance Readings		
	Drive End	Opposite Drive End	

61.	Technician		
Rewind			
62.	Core Test Results - Watts loss per Pound		
	Pre-Burnout	Post Burnout	
63.	Core Hot Spot Test		
	Pre-Burnout	Post-Burnout	
64.	Post Rewind Electrical Test- Insulation Resistance		
65.	Post Rewind Polarization Index		
66.	Post Rewind Winding Resistance		
	1-2	1-3	2-3
67.	Post Rewind Surge Test		
68.	Post Rewind Hi-Pot		
69.	Technician		
Root Cause of Failure			
70.	Failure locations <i>Windings on rotor and stator housing.</i>		
71.	Root cause of failure <i>Windings blown</i>		
Mechanical Fits- Rotor - Post Repair			
72.	Shaft Runout Post Repair		
73.	Rotor Runout Post Repair		
	Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing
74.	Coupling Fit Closest to Bearing Housing Post Repair		
	0 Degrees	90 Degrees	120 Degrees
75.	Coupling Fit Closest to the end of the Shaft Post Repair		
	0 Degrees	60 Degrees	120 Degrees
76.	Drive End Bearing Shaft Fit Post Repair		
	0 Degrees	60 Degrees	120 Degrees
77.	Opposite Drive End Bearing Shaft Fit Post Repair		
	0 Degrees	60 Degrees	120 Degrees
78.	Shaft Air Seal Fits Post Repair		
	Drive End Air Seal	Opposite Drive End Air Seal	

Turned rings



Mechanical Fits- Bearing Housings - Post Repair

80. Drive End - Endbell Bearing Fit Post Repair

0 Degrees

60 Degrees

120 Degrees

81. Opposite Drive End - Endbell Bearing Fit Post Repair

0 Degrees

60 Degrees

120 Degrees

82. Bearing Cap Condition Post Repair

Drive End Bearing Cap

Opposite Drive End Bearing Cap

83. End Bell Air Seal Fits Post Repair

Drive End Air Seal

Opposite Drive End Air Seal

84. End Bell Repair Sign-off

Assembly



85. Photograph All Major Components prior to assembly

86. Final Insulation Resistance Test

87. Assembled Shaft Endplay

88. Assembled Shaft Runout

89. Test Run Voltage

Volts

Volts

Volts

90. Test Run Amperage

Amps

Amps

Amps

91. Drive End Vibration Readings - Inches Per Second

Horizontal

Vertical

Axial

92. Opposite Drive End Vibration Readings - Inches Per Second

Horizontal

Vertical

Axial

93. Ambient Temperature - Fahrenheit

94. Drive End Bearing Temps - Fahrenheit

5 Minutes

10 Minutes

15 Minutes

95. Opposite Drive End Bearing Temps - Fahrenheit

5 Minutes

10 Minutes

15 Minutes

96. Final Test Run Sign-off

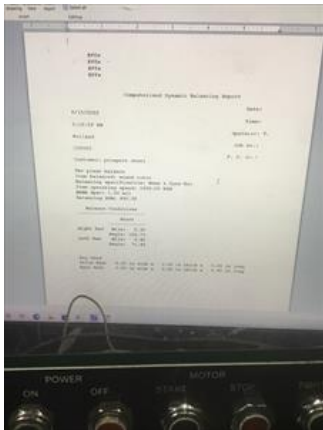
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97. Document Final Condition with Pictures after paint

P2200

 Slip ring test. 110v input, and 38v output on each leg.



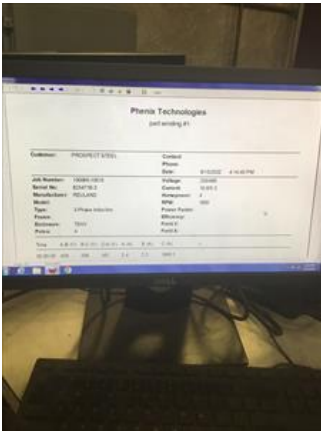


Slip ring

Stator



Stator



98. Final Pics and QC Review

Terrence. Holland

[Handwritten signature]