

Hi-Speed Industrial Service 7030 Ryburn Dr Millington, Tn 38053 901-873-5300

> FolderID: 103398 FormID: 21348798

AC Inspection as Found Lexicon (10257) 8900 Fouche Dam Pike

Little Rock, AR

AC Inspection	- Rev. 2
Location:	SHOP
Serial Number:	623471C-4
Description:2HP	REULAND EVAL

Hi-Speed Job Number:	103398
Manufacturer:	Reuland
Product Number:	16554-GG0655B
Serial Number:	623471C-4
HP/kW:	2 (HP)
RPM:	1800 (RPM)
Frame:	WE0-184/H4
Voltage:	230 / 460
Current:	6.0/3.0
Phase:	Three
Hz:	60 (Hz)
Enclosure:	TENV
J-box Included:	Complete
Date Received:	08/19/2024
Repair Stage:	Final

Priorities Found: **2 - High**

2.

7 - Good

Overall Condition 0 Report Date 08/20/2024 1.

P37 Nameplate Picture



Photos of all six sides of the machine.

P45































Describe the Overall Condition of the Equipment as Received
 Dirty but serviceable

5. Distance from the end of the shaft to the Coupling/Sheave 0.187 inches P76

3/16" shaft out



6.	Report Date [COPY]	08/20/2024	
Initial	Mechanical/Electrical		
7.	Does Shaft Turn Freely?	(N) No	
-	Bearings sound rough.		
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	Inches	

	11.	Assembled Shaft End Play		inches	
	12.	Air Gap Variation <10%			
	13.	Lead Condition		(P) Pass	
	14.	Lead Length		6 Inches	
	15.	Does it have Lugs?, If so what is	the Stud Size?	(No) No	
	16.	Lead Numbers		1-9	
	17.	Stator Temperature Detector Rati	ng and Function		
		Quantity	Rating	Quantity Passed	
		,	0		
	18.	Bearing Temperature Detector Ra	ating and Function		
		Quantity	Rating	Quantity Passed	
		•	-		
	19.	Frame Condition		pass	
	20.	Fan Condition		(N) NA	
	21.	Heater Quantity, Ratings			
		Quantity	Volts/Watts	Pass/Fail	
		,			
	22.	Broken or Missing Components		missing several screws on	
				brush covers	
In	itial E	Electrical Inspection			0
	23.	Insulation Resistance/Megger		1,000 Megohms	
	24.	Winding Resistance			P20
		1-2	1-3	2-3	





Wound rotor passed surge bat failed Meg. Will retest after wash and bake. Stator passed all electrical tests.



26. Number of Stator Slots

27. Stator Condition pass

28. Stator Thermistors/Ohms

31. Drive End Bearing Number-

29. Stator Overloads/Ohms

Mechanical Inspection

0

30. Drive End Bearing Brand

NTN 6205 z

P32





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? none



37.	Drive End Bearing Condition	replace	
38.	Opposite Drive End Bearing Brand	NTN	
39.	Opposite Drive End Bearing Number-	6005 Z C3	P100





40.	Opposite Drive End Bearing Qty.		1	
41.	Opposite Drive End Bearing Type		(Ball) Ball Bearing	
42.	Opposite Drive End Lubrication Ty	уре	(Grease) Grease Lubricated	
43.	Opposite Drive End Bearing Insula	ation or Grounding Device?	none	
44.	Opposite Drive End Wavy Washer	/Snap-Ring Other Retention Device?	snap ring	
45.	Opposite Drive End Bearing Cond	ition	replace	
46.	Drive End Seal			
47.	Opposite Drive End Seal			
48.	DE Sleeve Bearing Inside Diamete	er		
	0 degrees	120 degrees	240 degrees	
49.	DE Sleeve Bearing Outside Diame	eter		
	0 degrees	120 degrees	240 degrees	
50.	DE Sleeve Bearing Housing Inside	e Diameter		
	0 degrees	120 degrees	240 degrees	

51.	DE Sleeve Bearing to Housing Cl	earance		
	0 degrees	120 degrees	240 degrees	
52.	ODE Sleeve Bearing Inside Diam	eter		
	0 degrees	120 degrees	240 degrees	
53.	ODE Sleeve Bearing Outside Dia	meter		
	0 degrees	120 degrees	240 degrees	
54.	ODE Sleeve Bearing Housing Ins	ide Diameter		
	0 degrees	120 degrees	240 degrees	
55.	ODE Sleeve Bearing to Housing (Clearance		
	0 degrees	120 degrees	240 degrees	

Rotor Inspection

0

56. Rotor Type/Material

(Squirrel Aluminum) Squirrel Cage Aluminum Die Cast

P3



57. Growler Test

58. Number of Rotor Bars

59. Rotor Condition

60. List the Parts needed for the Repair Below

61. Signature of Technician that Disassembled Motor

Terrence Holland

Mechanical Fits- Rotor

62. Shaft Runout 0.002 inches

63. Rotor Runout

Drive End Bearing Fit Rotor Body Opposite Drive End Bearing

	64.	Coupling Fit Closest to Bearing H	ousing		
		0 Degrees	90 Degrees	120 Degrees	
	65.	Coupling Fit Closest to the end of	the Shaft		
		0 Degrees	60 Degrees	120 Degrees	
	66.	Drive End Bearing Shaft Fit			
		0 Degrees	60 Degrees	120 Degrees	
		0.9847	0.9847	0.9846	
	67.	Drive End Bearing Shaft Fit Cond	ition	(P) Pass	
	68.	Opposite Drive End Bearing Shaf	t Fit		
		0 Degrees	60 Degrees	120 Degrees	
	69.	Opposite Drive End Bearing Shaf	t Fit Condition	(P) Pass	
	70.	Shaft Air Seal Fits			
		Drive End Air Seal	Opposite Drive End Air Seal		
Me	echa	nical Fits- Bearing Housings			
	71.	Drive End - Endbell Bearing Fit			
		0 Degrees	60 Degrees	120 Degrees	
		2.0481	2.048	2.048	
	72.	Drive End - Endbell Bearing Fit C	ondition	(F) Fail	
	73.	Opposite Drive End - Endbell Bea	aring Fit		
		0 Degrees	60 Degrees	120 Degrees	
		1.8505	1.8506	1.8505	
	74.	Opposite Drive End - Endbell Bea	aring Fit Condition	(P) Pass	
	75.	Bearing Cap Condition			
		Drive End Bearing Cap	Opposite Drive End Bearing Cap		
	76.	End Bell Air Seal Fits			
		Drive End Air Seal	Opposite Drive End Air Seal		
	77.	List Machine Work Needed Below	ı		
		DE housing fit	•		
	78.	Technician		Terrence Holland	
	/-	<i>I</i> #	lla		

Root Cause of Failure

79. Failure locations

Bearings worn and rotor megs low.

80. Root cause of failure

Bearing grease hardened and not providing lubrication to bearings. Low megs possibly due to excessive amounts of carbon from the brushes inside the rotor windings.

Dynamic Balance Report

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 Electrical Test- Insulation Resistance 89. Post Rewind Indiana Resistance 1-2 1-3 2-3 90. Post Rewind Surge Test 91. Post Rewind Winding Resistance 1-2 1-3 2-3 91. Post Rewind Hi-Pot 192. Technician Mechanical Fits- Rotor - 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	81.	Rotor Weight and Balance Grade			
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- 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

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 Minu	utes	
	20 Minutes	25 Minutes	30 Minutes	
130.	Opposite Drive End Bearing	Temps - Fahrenheit 35-45 Minu	utes	
	35 Minutes	40 Minutes	45 Minutes	
131.		Temps - Fahrenheit 50-60 Minu		
	50 Minutes	55 Minutes	60 Minutes	
132.	Stator Temperatures- Fahre			
	5 Minutes	10 Minutes	15 Minutes	
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133.	Stator Temperatures- Fahre		00.44	
	20 Minutes	25 Minutes	30 Minutes	
121	Stator Temperatures- Fahre	phoit 25 45 Minutos		
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136.	Document Final Condition v	vith Pictures after paint		
137.	Final Pics and QC Review		Terrence Holland	
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