

AC Recondition As Found

Bauxite, AR 72011

AC Recondition - Rev. 2

Location:	LR Motor Shop
Serial Number:	5279033001

Description:350HP LOUIS ALLIS 900RPM 7110Z

Hi-Speed Job Number:	100368
Manufacturer:	Other
Serial Number:	5279033001
HP/kW:	350 (HP)
RPM:	880 (RPM)
Frame:	7110Z
Voltage:	460
Current:	427
Phase:	Three
Hz:	60 (Hz)
Enclosure:	ODP
J-box Included:	Complete
Coupling/Sheave:	Sheave
Bearing RTDs:	No
Stator RTDs:	No
Repair Stage:	Final
Heaters:	Yes
Winding Type :	Form Coil
Bearing Type:	Rolling Element

Priorities Found: 🛑 2 - High

6 - Good

Overall Condition

1. Report Date



3. Photos of all six sides of the machine.

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FolderID: 100368 FormID: 14677472



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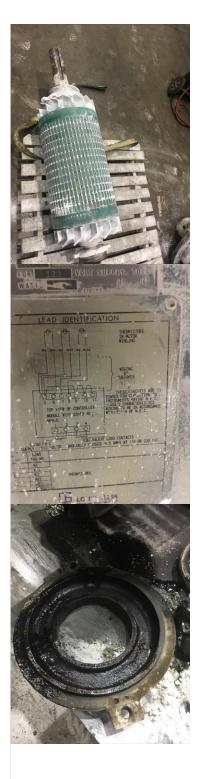














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4.	Describe the Overall Condition	of the Equipment as Received		
~	•	off to the Coupling/Checus	inches	
5.	Distance from the end of the sh	aft to the Coupling/Sneave	inches	
	Mechanical/Electrical			
6.	Does Shaft Turn Freely?		(Yes) Yes	
7.	Does Shaft Have Visible Damag	je?	(No) No	
8.	Assembled Shaft Runout			
9.	Assembled Shaft End Play			
10.	Air Gap Variation <10%			
11.	Lead Condition		(P) Pass	
12.	Lead Length		12 Inches	
13.	Frame Condition		pass	
14.	Fan Condition		(N) NA	
15.	Broken or Missing Components		coupling is broken and ODE bearing cap bolt	
16.	Heater Quantity, Ratings			
	Quantity	Volts/Watts	Pass/Fail	
Initial	Electrical Inspection			
17.	Insulation Resistance/Megger			
18.	Winding Resistance			
	1-2	1-3	2-3	
9 19.	Perform Surge Test		(P) Pass	
20.	Stator Condition		thermistors	
Mecha	anical Inspection			
21.	Drive End Bearing Number-		6322	
22.	Drive End Bearing Qty.		1	
23.	3 71		(Ball) Ball Bearing	
24.	Drive End Lubrication Type		(Grease) Grease Lubricated	
25.	Drive End Bearing Insulation or	Grounding Device?	na	
26.	Drive End Wavy Washer/Snap-	Ring Other Retention Device?	na	
27.	Drive End Bearing Condition		wear	
28.	Opposite Drive End Bearing Nu	mber-	6316	
29.	Opposite Drive End Bearing Qty	/.	1	
30.	Opposite Drive End Bearing Ty	De	(Ball) Ball Bearing	

31.	Opposite Drive End Lubrication T	уре	(Grease) Grease Lubricated	
32.	Opposite Drive End Bearing Insulation or Grounding Device?		na	
33.	Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?		na	
34.	Opposite Drive End Bearing Cond	dition	excessive wear and metal fatigue	
35.	Drive End Seal		na	
36.	Opposite Drive End Seal		na	
Rotor I	nspection			
37.	Rotor Type/Material		(Aluminum Bar) Aluminum Barred Rotor	
38.	Growler Test		(Pass) Pass	
39.	Number of Rotor Bars			
40.	Rotor Condition		pass	
41.	List the Parts needed for the Rep 6322 6316 Sleeve for ODE bearing fit New thermistors x3 Bolt for bearing cap	air Below		
42. (Signature of Technician that Disa		Cw	
Mecha	nical Fits- Rotor			
43.	Shaft Runout			
44.	Rotor Runout			
	Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing	
45.	Coupling Fit Closest to Bearing H	lousing		
	0 Degrees	90 Degrees	120 Degrees	
46.	Coupling Fit Closest to the end of	f the Shaft		
	0 Degrees	60 Degrees	120 Degrees	
47.	Drive End Bearing Shaft Fit			
	0 Degrees	60 Degrees	120 Degrees	
			120 Dog1003	
-	4.3317x2			
48.	Drive End Bearing Shaft Fit Cond		(P) Pass	
49.	Opposite Drive End Bearing Shaf			
	0 Degrees	60 Degrees	120 Degrees	
Ŧ	3.1500 3.1502 3.1501			
50.	Opposite Drive End Bearing Shaf	t Fit Condition	(P) Pass	
51.	Shaft Air Seal Fits			
	Drive End Air Seal	Opposite Drive End Air Seal		

52.	Drive End - Endbell Bearing Fit			
	0 Degrees	60 Degrees	120 Degrees	
-	9.4495 9.4497 9.4496			
53.	Drive End - Endbell Bearing Fit C	ondition		(P) Pass
54.	Opposite Drive End - Endbell Bea	ring Fit		
	0 Degrees	60 Degrees	120 Degrees	
•	6.6917 6.6915			
55.	Opposite Drive End - Endbell Bea	rring Fit Condition		(F) Fail
56.	Bearing Cap Condition			
	Drive End Bearing Cap	Opposite Drive End Bearing Cap		
	Pass			
57.	End Bell Air Seal Fits			
	Drive End Air Seal	Opposite Drive End Air Seal		
58.	List Machine Work Needed Below	I		
59.	Technician			Cw
	l			
ynam	nic Balance Report			O
60.	Rotor Weight and Balance Grade			
	Rotor Weight	Balance Grade		
61.	Initial Balance Readings			
61.	Initial Balance Readings Drive End	Opposite Drive End		

62.	Final Balance Readings		P200
	Drive End	Opposite Drive End	
63.	Technician	ll of	Terrence. Holland
Rewine	d		
64.	Core Test Results - Watts loss pe	er Pound	
	Pre-Burnout	Post Burnout	
65.	Core Hot Spot Test		
00.	Pre-Burnout	Post-Burnout	
	The Bullout		
66.	Post Rewind Electrical Test- Insu	lation Resistance	
67.	Post Rewind Polarization Index		
68.	Post Rewind Winding Resistance		
	1-2	1-3	2-3
69.	Post Rewind Surge Test		
70.	Post Rewind Hi-Pot		
71.	Technician		
Root C	Cause of Failure		
72.	Failure locations		
	Bearings, coupling, and ODE beari	ng fit, and thermistors	
73.	Root cause of failure		
	ODE bearing fit was under sized pu metal fatigue to the bearing races	utting to much pressure on the bearing o	causing more heat and extensive
Mecha	nical Fits- Rotor - Post Repai	r	
74.	Shaft Runout Post Repair		
75.	Rotor Runout Post Repair		
	Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing
	5	-	

76.	Coupling Fit Closest to Bearing	Housing Post Repair			
	0 Degrees	90 Degrees	120 Degrees		
77.	Coupling Fit Closest to the end	of the Shaft Post Repair			
	0 Degrees	60 Degrees	120 Degrees		
78.	Drive End Bearing Shaft Fit Po	st Repair			
	0 Degrees	60 Degrees	120 Degrees		
79.	Opposite Drive End Bearing SI	naft Fit Post Repair			
	0 Degrees	60 Degrees	120 Degrees		
80.	1				
	Drive End Air Seal	Opposite Drive End Air Seal			
81.	1 0				
	nical Fits- Bearing Housing	•			
82.	0				
	0 Degrees	60 Degrees	120 Degrees		
00	One still Drive Fault Fault still				
83.	Opposite Drive End - Endbell E	- ·			
	0 Degrees	60 Degrees	120 Degrees		
84.	Bearing Cap Condition Post Repair				
04.	Drive End Bearing Cap	Opposite Drive End Bearing Cap			
	Drive End Bearing Cap	Opposite Drive End Bearing Cap			
85.	End Bell Air Seal Fits Post Rep	pair			
	Drive End Air Seal	Opposite Drive End Air Seal			
86.	End Bell Repair Sign-off				
Assem	nbly			0	
87.	Photograph All Major Compone	ents prior to assembly		P0	
1					
		100 million			
		~ _~			
	Lak				
110					































88. Final Insulation Resistance Test







Megohms

P100

	SDB 17B30 VIIIII VIIIII VIIII VIIII VIIII VIIII VIIIII VIIIII VIIIII VIIIII VIIIII VIIIII VIIIII VIIIII VIIIII VIIIII VIIIII VIIIIII VIIIII VIIIII VIIIII VIIIII VIIIIIIII			
89.	Assembled Shaft Endplay			
90.	Assembled Shaft Runout			
91.	Test Run Voltage			
	Volts	Volts	Volts	
92.	Test Run Amperage			
	Amps	Amps	Amps	
93.	Drive End Vibration Readings - In		A *-1	
	Horizontal	Vertical	Axial	
0.4		0.04	0.01	
94.	Opposite Drive End Vibration Re		A :-1	
	Horizontal	Vertical	Axial	
05	0.04	0.03	0.01	
95.	Ambient Temperature - Fahrenho			
96.	Drive End Bearing Temps - Fahr 5 Minutes	10 Minutes	15 Minuton	
	5 Minutes	78.90000000000001	15 Minutes 83.2	
07	Opposite Drive End Bearing Terr		03.2	
57.	5 Minutes	10 Minutes	15 Minutes	
		80.8	82.8	
98.	Stator Temperatures- Fahrenheit		V2.V	
00.	5 Minutes	10 Minutes	15 Minutes	

99. Final Test Run Sign-off

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Terrence Holland

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100. Document Final Condition with Pictures after paint



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