

FolderID: 103040 FormID: 20517314



4701 Alcoa Road Bauxite, AR 72011

AC Inspection as Found Almatis Inc/RCP Bauxite (10014)

AC	Inspection - Rev.	2
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Location: LR Motor Shop
Serial Number:

Description:60HP EMERSON EVAL

Hi-Speed Job Number:	103040
Manufacturer:	Other
Product Number:	8P60P2C
Spec/ID #:	BJ53
HP/kW:	60 (HP)
RPM:	1785 (RPM)
Frame:	364T
Voltage:	460
Current:	69.0 (Amps)
Phase:	Three
Hz:	60 (Hz)
Service Factor:	1.15
Enclosure:	TEFC
# of Leads:	3
J-box Included:	Complete
Coupling/Sheave:	None
Date Received:	05/29/2024
Bearing RTDs:	No
Stator RTDs:	No
Repair Stage:	Teardown Inspection
Rewind:	No
Shaft Machined Fit Repairs Required:	No
Bearing Housing Machined Fit Repairs Required:	No
Heaters:	No
Winding Type :	Random Wound
Bearing Type:	Rolling Element

Priorities Found: **3 - High**

gh 🛛 🔵 8 - Good

Overall Condition

1. Report Date

06/05/2024

Ο

2. Nameplate Picture



3. Photos of all six sides of the machine.









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P45





4	ŀ.	Describe the Overall Condition of the Equipment as Received		
		Good condition. Passed all electrical tests. Requires new bearings and fan to from opposite drive end were missing. Bearing cap spun on shaft but didn't ca on rotor were ground down but not an issue.	recondition. Bearing cap bolt ause any damage to shaft. Fin	5
Initia	al N	Mechanical/Electrical		O
5	5.	Does Shaft Turn Freely?	(Y) Ye	s
6	ò.	Does the shaft require T.I.R in Lathe to identify additional repairs?	(No) N	0
7	′ .	Does Shaft Have Visible Damage?	(No) N	0
8	8.	Assembled Shaft Runout	0.001 Inche	S
9).	Assembled Shaft End Play	0 inche	S
10	0.	Air Gap Variation <10%	No Provisions fo measurement	-
_	1.	Lead Condition	(P) Pas	s P69
Con Mar				
12	2.	Lead Length	10 Inche	S
		Lead Length Does it have Lugs?, If so what is the Stud Size?	10 Inche (Yes) Ye	-
				-
	3.	Does it have Lugs?, If so what is the Stud Size?		S



17. Broken or Missing Components





Drilled and tapped.



Initial Electrical Inspection

Lifting eye

(F) Fail

P115

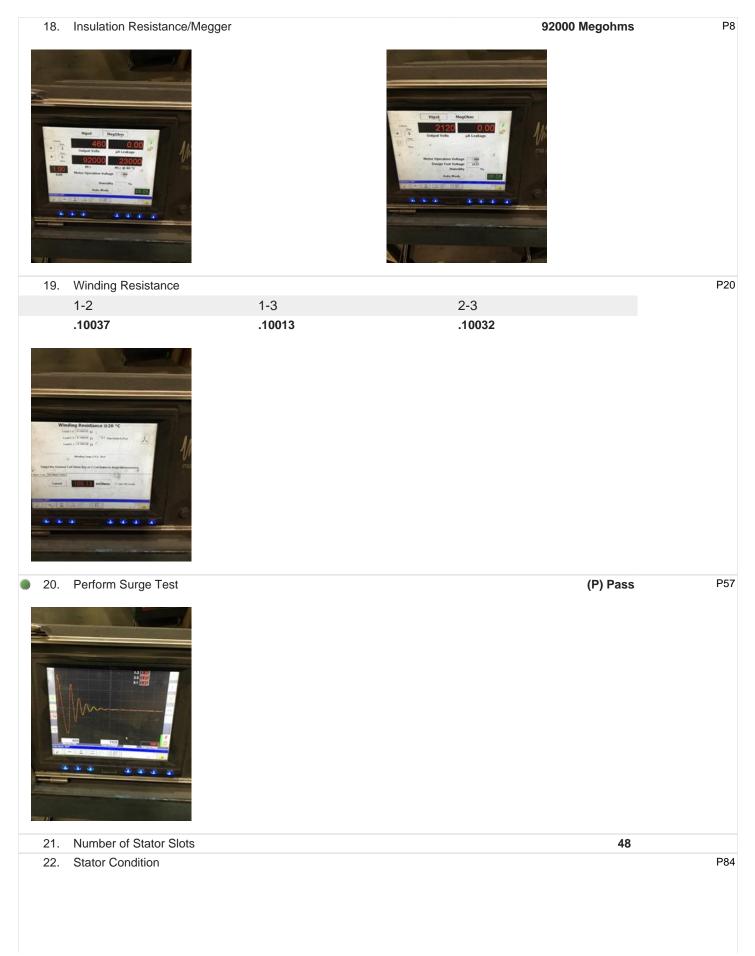
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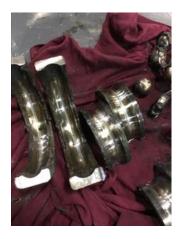
Bearing cap bolts missing on ODE.



0



23.	Stator Thermistors/Ohms	<image/> <page-footer></page-footer>	
23.	Stator Overloads/Ohms	N/A	
	inical Inspection		o
25.	Drive End Bearing Brand	MLK	P12
26.	Drive End Bearing Number-	6313 C3	
27.	Drive End Bearing Qty.	1	
28.	Drive End Bearing Type	(Ball) Ball Bearing	
29.	Drive End Lubrication Type	(Grease) Grease Lubricated	
30.	Drive End Bearing Insulation or Grounding Device?	Nine	
31.	Drive End Wavy Washer/Snap-Ring Other Retention Device	? None	
32.	Drive End Bearing Condition	Normal wear	P82





34.	Opposite Drive End Bearing Number-	6313 C3	
35.	Opposite Drive End Bearing Qty.	1	
36.	Opposite Drive End Bearing Type	(Ball) Ball Bearing	
37.	Opposite Drive End Lubrication Type	(Grease) Grease Lubricated	
38.	Opposite Drive End Bearing Insulation or Grounding Device?	None	
39.	Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?	wavy washer	
40.	Opposite Drive End Bearing Condition	Normal wear	P118



41. Drive End Seal



42. Opposite Drive End Seal

labyrinth

Labyrinth

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MLK



N.				
Rotor I	nspection		0	
43.	Rotor Type/Material		(Squirrel Aluminum) Squirrel Cage Aluminum Die Cast	
44.	Growler Test		(Pass) Pass	
45.	Number of Rotor Bars		56	
46.	Rotor Condition			P41
47.	List the Parts needed for the F 6313 C3 x2 3/4 eye bolt Fan	Repair Below		
48.	Signature of Technician that D	Disassembled Motor	Brandon Woodard	
Mecha	nical Fits- Rotor		0	
49.	Shaft Runout		0.001 inches	
50.	Rotor Runout			
50.				
50.	Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing	

51.	Coupling Fit Closest to Bearing Housing			P33
	0 Degrees	90 Degrees	120 Degrees	
All and a second s	2.375	2.375	2.375	
52.	Coupling Fit Closest to the end of	f the Shaft		
	0 Degrees	60 Degrees	120 Degrees	
	2.375	2.375	2.375	
53.	Drive End Bearing Shaft Fit			P79
	0 Degrees	60 Degrees	120 Degrees	
	2.5592	2.5592	2.5592	
	Tolerance is 2.5592-2.5597			
54.	Drive End Bearing Shaft Fit Conc	lition	(P) F	Pass

55.	55. Opposite Drive End Bearing Shaft Fit				
	0 Degrees	60 Degrees	120 Degrees		
	2.5598	2.5598	2.5598		
-	Tolerance is 2.5592-2.5597				
56.	Opposite Drive End Bearing Shaf	t Fit Condition	(P) P	ass	
57.					
	Drive End Air Seal	Opposite Drive End Air Seal			
	Pass	Pass			
Mecha	nical Fits- Bearing Housings			O	
58.	Drive End - Endbell Bearing Fit			P2	
	0 Degrees	60 Degrees	120 Degrees		
	5.1125	5.1125	5.1125		
Sarres b	Tolerance is 5.5118-5.5128				
59.	Drive End - Endbell Bearing Fit C	ondition	(P) P	ass	

		Opposite Drive End - Endbell Bea 0 Degrees			P30
-		U Dogrood	60 Dedrees	120 Degrees	
-		5.1126	60 Degrees 5.1126	5.1126	
		Tolerance is 5.5118-5.5128	0.1120	5.1125	
		Toterance is 5.5116-5.5126			
		Opposite Drive End - Endbell Bea	ring Fit Condition	(P) Pass	
6	62.	Bearing Cap Condition			
		Drive End Bearing Cap Pass	Opposite Drive End Bearing Cap Pass		
6	63.	End Bell Air Seal Fits			
		Drive End Air Seal	Opposite Drive End Air Seal		
		Pass	Pass		
6	64.	List Machine Work Needed Below None	, ,		
6	65.	Technician	\rightarrow	Brandon Woodard	
Roc	ot Ca	ause of Failure			
	66.	Failure locations			
6	67.	Root cause of failure			