

FolderID: 153239 FormID: 21177454



228 Rush Street Lexington, TN 38351

AC Inspection as Found MIG Construction (0004123)

AC	Inspection - Rev.	2
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Location: Shop

Serial Number:

Hi-Speed Job Number:	153239
Manufacturer:	Other
Product Number:	7-850095-01-ON
Spec/ID #:	NA
Serial Number:	BT04
HP/kW:	10 (HP)
RPM:	1430 (RPM)
Frame:	S215T
Voltage:	230 / 460
Current:	32.2/16.1 (Amps)
Phase:	Three
Hz:	60 (Hz)
Enclosure:	DP
# of Leads:	9
J-box Included:	Half
Coupling/Sheave:	Sheave
Date Received:	08/01/2024
Bearing RTDs:	No
Stator RTDs:	No
Repair Stage:	Teardown Inspection
Rewind:	Yes
Heaters:	No
Winding Type :	Random Wound
Bearing Type:	Rolling Element

Priorities Found: 🔵 1 - High

10 - Good

Overall Condition

- 1. Report Date
- 2. Nameplate Picture



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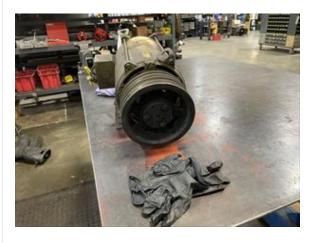
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P2

08/01/2024

3. Photos of all six sides of the machine.







- Describe the Overall Condition of the Equipment as Received Stator is in need of rewind due to failing surge test
- 5. Distance from the end of the shaft to the Coupling/Sheave*Flush*

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0 inches

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Initial Mechanical/Electrical

	man		
	6.	Does Shaft Turn Freely?	(Y) Yes
	7.	Does the shaft require T.I.R in Lathe to identify additional repairs?	(No) No
	8.	Does Shaft Have Visible Damage?	(No) No
	9.	Assembled Shaft Runout	0 Inches
	10.	Assembled Shaft End Play	0.02 inches
	11.	Air Gap Variation <10%	no provisions for measurement
	12.	Lead Condition	(P) Pass
	13.	Lead Length	9 Inches
	14.	Does it have Lugs?, If so what is the Stud Size?	(No) No
	15.	Lead Numbers	9
	16.	Frame Condition	good
	17.	Fan Condition	(N) NA
	18.	Broken or Missing Components	none
In	itial I	Electrical Inspection	

19. Insulation Resistance/Megger





92000 Megohms

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20.	Winding Resistance			P20
	1-2	1-3	2-3	
and later Off	1.0653	1.0648	1.0647	
21.			(F) Fail	P21
22.	Number of Stator Slots		36	
23.	Stator Condition		acceptable	
24.	Stator Thermistors/Ohms		na	
25.	Stator Overloads/Ohms		na	
	nical Inspection			0
26.	Drive End Bearing Brand		nsk	

27.	Drive End Bearing Number- Shielded on one side	6208z	P27
28.	Drive End Bearing Qty.	1	
29.	Drive End Bearing Type	(Ball) Ball Bearing	
30.	Drive End Lubrication Type	(Grease) Grease Lubricated	
31.	Drive End Bearing Insulation or Grounding Device?	none	
32.	Drive End Wavy Washer/Snap-Ring Other Retention Device?	none	
33.	Drive End Bearing Condition	good	
34.	Opposite Drive End Bearing Brand	nsk	
35.	Opposite Drive End Bearing Number-	6206z	
36.	Opposite Drive End Bearing Qty.	1	
37.	Opposite Drive End Bearing Type	(Ball) Ball Bearing	
38.	Opposite Drive End Lubrication Type	(Grease) Grease Lubricated	
39. 40.	Opposite Drive End Bearing Insulation or Grounding Device? Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?	none	P40
		wavy washer	
41.	Opposite Drive End Bearing Condition	good	
42.	Drive End Seal	none	
43.	Opposite Drive End Seal	none	
	nspection		
44.	Rotor Type/Material	(Aluminum Bar) Aluminum Barred Rotor	
45.	Growler Test	(Pass) Pass	

40	Number of Datas Da		20	
46.	Number of Rotor Bars Rotor Condition		28	
47.		oir Polow	acceptable	
48.	List the Parts needed for the Rep 1- 6206z			
	1- 6208z			
49.	Signature of Technician that Disa	ssembled Motor	Joe Shurtz	
49. 		Ssembled Motor	Joe Shurtz	
1				
	7/			
	V			
Maaba	✓ Inical Fits- Rotor			
50.	Shaft Runout		0.0001 inches	
51.			0.0001 menes	
51.	Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing	
		0		
52.	Coupling Fit Closest to Bearing H		~	
02.	0 Degrees	90 Degrees	120 Degrees	
	1.3783	1.3783	1.3783	
53.				
001	0 Degrees	60 Degrees	120 Degrees	
	1.375	1.375	1.375	
	Tolerance is 1.375			
54.	Drive End Bearing Shaft Fit			
	0 Degrees	60 Degrees	120 Degrees	
	1.5753	1.5752	1.575	
-	Tolerance is 1.5753-1.5749			
55.	Drive End Bearing Shaft Fit Conc	lition	(P) Pass	
56.	Opposite Drive End Bearing Shaf	t Fit		
	0 Degrees	60 Degrees	120 Degrees	
	1.1813	1.1814	1.1814	
	Tolerance is 1.815-1.1812			
57.	11 0	t Fit Condition	(P) Pass	
58.	Shaft Air Seal Fits			
	Drive End Air Seal	Opposite Drive End Air Seal		
_	na	na		
Maaka	Na			
	nical Fits- Bearing Housings			
59.	9	60 Degrees		
	0 Degrees	60 Degrees	120 Degrees	
_	1.5753 Tolerance is 1.5748-1.5754	1.5753	1.5753	
6 0.	Drive End - Endbell Bearing Fit C	andition	(P) Pass	
60.	Opposite Drive End - Endbell Bearing Fit C		(Г) Газэ	
01.	0 Degrees	60 Degrees	120 Degrees	
	1.1814	1.1814	1.1814	
	Tolerance is 1.1811-1.1816			
-				

62.			
02.	Opposite Drive End - Endbell Bea	aring Fit Condition	(P) Pass
63.	Bearing Cap Condition		
	Drive End Bearing Cap	Opposite Drive End Bearing Cap	
	Na		
64.	End Bell Air Seal Fits		
	Drive End Air Seal	Opposite Drive End Air Seal	
	na	na	
	Nana		
65.	List Machine Work Needed Below	N	
	None needed		
00	- - - - -		
66.	Technician		Js
Ł	Technician		Js
Ł			Js
Root C	cause of Failure		Js
Root C	Fause of Failure Failure locations		Js