

7103 OLD MILLINGTON ROAD **MILLINGTON, TN 38053** 



AC Recondit	ion - Rev. 2
Location:	Shop

Serial Number: A1307022094

FolderID: 149655 FormID: 16085329

Hi-Speed Job Number:	149655
Manufacturer:	Baldor
Spec/ID #:	A44-4469-1796
Serial Number:	A1307022094
HP/kW:	125 (HP)
RPM:	1785 (RPM)
Frame:	444T
Voltage:	460
Current:	139 (Amps)
Phase:	Three
Hz:	60 (Hz)
Service Factor:	1
Enclosure:	TEFC
# of Leads:	3
J-box Included:	None
Coupling/Sheave:	Coupling
Date Received:	02/27/2023
Bearing RTDs:	No
Stator RTDs:	No
Repair Stage:	Teardown Inspection
Heaters:	Yes
Winding Type :	Random Wound
Bearing Type:	Rolling Element

Priorities Found: **2 - High** 

9 - Good



3. Photos of all six sides of the machine.

















4.	Describe the Overall Condition of the Equipment as Receiv	ed	
	Rusty and dirty		
5.	Distance from the end of the shaft to the Coupling/Sheave	1.2 inches	
	See pics under all six sides		
Initial	Mechanical/Electrical		0
<b>6</b> .	Does Shaft Turn Freely?	(Yes) Yes	
7.	Does Shaft Have Visible Damage?	(No) No	
8.	Assembled Shaft Runout	0 Inches	
9.	Assembled Shaft End Play	0 inches	
10	. Air Gap Variation <10%	No provisions for measurement	
• 11.	. Lead Condition	(P) Pass	
	- Edd Edigit		
13.	. Frame Condition	Good	
• 14.	. Fan Condition	(P) Pass	

15	Heater Quantity Ratings			P17
10.		Volte/Watte	Pass/Fail	,
		120/122		
_	I Hastar abm at 115.0	120/123	pass	
	Heater Onm at 116.9			
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-	Manager (1980)			
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16.	Broken or Missing Components			P18
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Initial E	Electrical Inspection			O
17.	Insulation Resistance/Megger		12164 Megohms	<b>s</b> P19
Rene Mindee Saids For	**************************************			
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10	Winding Resistance			D0U
10.		1 2	2.2	120
	0372	0374	0376	
		.0374	.0376	
• 19.	Perform Surge Test		(P) Pass	P21
20	Number of Stator Slots		72 Megohms	
21	Stator Condition		Acceptable	
Mech	anical Inspection			0
22.	Drive End Bearing Brand		Nachi	
23	Drive End Bearing Number-		6318C3	
	No shield on either side			
24	Drive End Bearing Qty.			
25	Drive End Bearing Type		(Ball) Ball Bearing	

26. Drive End Lubrication Type

(

Looks like grease may of been mixed





27.	Drive End Bearing Insulation or Grounding Device?	None Present	
28.	Drive End Wavy Washer/Snap-Ring Other Retention Device?	None	
29.	Drive End Bearing Condition		
30.	Opposite Drive End Bearing Brand	Nachi	P32
31.	Opposite Drive End Bearing Number-	6318C3	P33
	Bearing not shielded on either side		

32.	Opposite Drive End Bearing Qty.	1	
33.	Opposite Drive End Bearing Type	(Ball) Ball Bearing	
34.	Opposite Drive End Lubrication Type	(Grease) Grease Lubricated	P36



35.	Opposite Drive End Bearing Insulation or Grounding Device?	None Present	
36.	Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?	Wavy washer	P38
37.	Opposite Drive End Bearing Condition		
38.	Drive End Seal	None Present	
39.	Opposite Drive End Seal	Rubber slinger	
Rotor I	nspection		0
40.	Rotor Type/Material	(Aluminum Bar) Aluminum Barred Rotor	
41.	Growler Test	(Pass) Pass	
42.	Number of Rotor Bars	58	



48.	48. Coupling Fit Closest to Bearing Housing				
	0 Degrees	90 Degrees	120 Degrees		
	3.3742	3.3742	3.3742		
ET					
49.	Coupling Fit Closest to the end of	the Shaft			
	0 Degrees	60 Degrees	120 Degrees		
	3.3742	3.3742	3.3742		
50.	Drive End Bearing Shaft Fit			P60	
	0 Degrees	60 Degrees	120 Degrees		
	3.5434	3.5434	3.5434		
	90mm=3.5433. Tolerance is 3.5434-	3.5440			
	Drive End Baaring Shaft Eit Com	lition			
51.	Drive End Bearing Shaft Fit Conc	lition	(P) F	ass	

	52. Opposite Drive End Bearing Shaft Fit				
		0 Degrees	60 Degrees	120 Degrees	
		3.5437	3.5437	3.5437	
	Ψ	90mm=3.5433. Tolerance is 3.5434-	3.5440		
	53.	Opposite Drive End Bearing Shaf	t Fit Condition	(P) Pass	5
	54.	Shaft Air Seal Fits			
		Drive End Air Seal	Opposite Drive End Air Seal		
		good	good		
N	lecha	nical Fits- Bearing Housings			0
	55.	Drive End - Endbell Bearing Fit			 P65
		0 Degrees	60 Degrees	120 Degrees	
		7.4822	7.4822	7.482	
	•	190mm=7.4803 Tolerance is 7.4803-7.4814 .0008 out of tolerance and .0002 ou	t of round. Recommend bore/bush		

	57.	Opposite Drive End - Endbell Bear	ring Fit		P67
		0 Degrees	60 Degrees	120 Degrees	
		7.4815	7.4815	7.4815	
(	-	190mm=7.4803 Tolerance is 7.4803-7.4814 .0001 out of tolerance recommend r	no machine work		
	58.	Opposite Drive End - Endbell Bear	ring Fit Condition	(F) Fail	
	59.	Bearing Cap Condition			
		Drive End Bearing Cap	Opposite Drive End Bearing Cap		
		good	good		
	60.	End Bell Air Seal Fits			
		Drive End Air Seal	Opposite Drive End Air Seal		
		good	good		
	61.	List Machine Work Needed Below	-		P71
		Bore and bush DE end bell Skim pass on rotor to clean surface	rust		
		Tachaician		Brandon Weedord	
	62.	Technician	7	Brandon Woodard	
Ro	oot C	ause of Failure			

- 63. Failure locations
- 64. Root cause of failure