

AC Inspection as Found GEORGIA PACIFIC GYPSUM 150 TEMPLE DR

CUMBERLAND, TN 37050

AC Inspection - Rev. 2		
Completed by: B 06/16/2025	randon Woodard on	
Location:	Motor Shop	
Serial Number:	200901200	

Description:300 HP AC

FolderID: 155808 FormID: 24797960

ni-speed Job Number.	155606
Manufacturer:	Toshiba
Product Number:	SD-10033947
Serial Number:	200901200
HP/kW:	300 (HP)
RPM:	1785 (RPM)
Frame:	S449TS
Voltage:	460
Current:	345 (Amps)
Phase:	Three
Hz:	60 (Hz)
Service Factor:	1.15
Enclosure:	TEFC
# of Leads:	6
J-box Included:	None
Coupling/Sheave:	None
Date Received:	06/12/2025
Bearing RTDs:	No
Stator RTDs:	No
Repair Stage:	Teardown Inspection
Rewind:	Yes
Shaft Machined Fit Repairs Required:	No
Bearing Housing Machined Fit Repairs Required:	No
Heaters:	No
Winding Type :	Random Wound
Bearing Type:	Rolling Element

155808

Hi-Speed Job Number:

Priorities Found: 🔵 4 - High

h 🕘 11 - Good

Overall Condition

1. Report Date

06/13/2025

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3. Photos of all six sides of the machine.









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P2

P3



	4.	Describe the Overall Condition of the Equipment as Received			
	Windings grounded. No machine work. Bearings were heavily fluted . Recommend adding aegis ring and insulated bearing.				
	5.	Is this a UL Listed Motor	(No) No		
	6.	Is the motor water cooled or can be pressure checked before teardown	(No) No		
Init	tial N	/lechanical/Electrical	0		
	7.	Does Shaft Turn Freely?	(Y) Yes		
	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	0.001 Inches		
	11.	Assembled Shaft End Play	0.001 inches		
	12.	Air Gap Variation <10%	No provisions for measurement		
	13.	Lead Condition	(P) Pass	P13	
	14.	Lead Length	24 Inches		

٠	15.	Does it have Lugs?, If so what is the Stud Size? 3/8"DAG	(Yes) Yes	P15
	16.	Lead Numbers	1-6	
	17.	Are the Leads insulated with Chico or other material	(No) No	
	18. 19.	Frame Condition Fan Condition	Pass (P) Pass	P19
	20.	Does motor have internal fan?	(No) No	
	20.	Broken or Missing Components	None	
In		Electrical Inspection		0
	22.	Insulation Resistance/Megger	0 Megohms	P22

23.	Winding Resistance			P23
20.	1-2	1-3	2-3	120
	Martine Researce of D* C*			
24.	Perform Surge Test		(F) Fai	P24
25.	Number of Stator Slots		72	
26.	Stator Condition		Requires rewind	P26
27.	Stator Thermistors/Ohms		N/A	
28.	Stator Overloads/Ohms		N/A	
wecha	nical Inspection			0



	6318 C3	30. Drive End Bearing Number-
	1	31. Drive End Bearing Qty.
	(Ball) Ball Bearing	32. Drive End Bearing Type
	(Grease) Grease Lubricated	33. Drive End Lubrication Type
	None	34. Drive End Bearing Insulation or Grounding Device?
	Snap Ring	35. Drive End Wavy Washer/Snap-Ring Other Retention Device?
P36	heavy electrical fluting!	36. Drive End Bearing Condition



37. Opposite Drive End Bearing Brand



38.	Opposite Drive End Bearing Number-	6318 C3
30.	Opposite Drive End Bearing Number-	0318 03

39. Opposite Drive End Bearing Qty.

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40.	Opposite Drive End Bearing Type	(Ball) Ball Bearing	
41.	Opposite Drive End Lubrication Type	(Grease) Grease Lubricated	
42.	Opposite Drive End Bearing Insulation or Grounding Device?	None	
43.	Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?	Snap Ring	
44.	Opposite Drive End Bearing Condition	heavy electrical fluting!	P44
45.	Drive End Seal	VA90	P45
46.	Opposite Drive End Seal	None	
Rotor	Inspection		
47.	Rotor Type/Material	(Squirrel Aluminum) Squirrel Cage Aluminum Die Cast	
48.	Growler Test	(Pass) Pass	
49.	Number of Rotor Bars	58	
50.	Rotor Condition	Pass	
51.	List the Parts needed for the Repair Below 6318 C3 6318 C3 insulated Aegis ring SGR-100.1-3FH [Mfr# SGR-100.1-129.5-3FH] VA90		
52.	Signature of Technician that Disassembled Motor	Brandon Woodard	

	anical Fits- Rotor		0	
53.			0.001 inches	
54.	Rotor Runout			
	Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing	
	0.002	0.002	0.002	
55.	Coupling Fit Closest to Bearing	ng Housing		P
	0 Degrees	90 Degrees	120 Degrees	
	2.375	2.375	2.375	
56.	Coupling Fit Closest to the er 0 Degrees	d of the Shaft 60 Degrees	120 Degrees	
	2.375	2.375	2.375	
57.	Drive End Bearing Shaft Fit			Р
	0 Degrees	60 Degrees	120 Degrees	
	3.5438	3.5438	3.5438	
•	Tolerance is 3.5434-3.5440			

	59.	9. Opposite Drive End Bearing Shaft Fit				P59
		0 Degrees	60 Degrees	120 Degrees		
	-	3.5435 Tolerance is 3.5434-3.5440	3.5435	3.5435		
•	60.	Opposite Drive End Bearing Shafe	t Fit Condition	(F	P) Pass	
	61.	Shaft Air Seal Fits				
		Drive End Air Seal	Opposite Drive End Air Seal			
		Pass	Pass			
Μ	echa	nical Fits- Bearing Housings				0
M	echa 62.					0 P62
M			60 Degrees	120 Degrees		
M		Drive End - Endbell Bearing Fit	60 Degrees 7.4816	120 Degrees 7.4816		
M		Drive End - Endbell Bearing Fit 0 Degrees 7.4816		7.4816		
M	62.	Drive End - Endbell Bearing Fit 0 Degrees 7.4816 Tolerance is 7.4803-7.48140002 of	7.4816 over tolerance recommend no machine	7.4816 work.		
M	62. • •	Drive End - Endbell Bearing Fit 0 Degrees 7.4816 Tolerance is 7.4803-7.48140002 of Tolerance is 7.4803-7.48140002 of Drive End - Endbell Bearing Fit Co	7.4816 over tolerance recommend no machine	7.4816 work.	P) Pass	
M	62.	Drive End - Endbell Bearing Fit 0 Degrees 7.4816 Tolerance is 7.4803-7.48140002 of Tolerance is 7.4803-7.48140002 of Drive End - Endbell Bearing Fit Co Opposite Drive End - Endbell Bearing Fit Co	7.4816 over tolerance recommend no machine ondition aring Fit	7.4816 work.		
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Tolerance is 7.4803-7.4814

66.	•		
	Drive End Bearing Cap	Opposite Drive End Bearing Cap	
	Pass	Pass	
67.	End Bell Air Seal Fits		
	Drive End Air Seal	Opposite Drive End Air Seal	
	Pass	Pass	
68.	List Machine Work Needed Below	,	
	None recommend!		
69.	Technician		Brandon Woodard
	Cause of Failure		
70.	Failure locations Windings blown		
71.	Root cause of failure		