



AC Inspection as Found GEORGIA PACIFIC GYPSUM 150 TEMPLE DR

CUMBERLAND, TN 37050

FolderID: 155998 FormID: 25206037



AC Inspection - Rev. 2

Description:300 HP AC

Location: Motor Shop Serial Number: 1093144308

Hi-Speed Job Number:	155998
Manufacturer:	WEG
Serial Number:	1093144308
HP/kW:	300 (HP)
RPM:	1780 (RPM)
Frame:	447/9TS
Voltage:	460
Current:	330 (Amps)
Phase:	Three
Hz:	60 (Hz)
Service Factor:	1.15
Enclosure:	TEFC
# of Leads:	12
J-box Included:	Complete
Coupling/Sheave:	None
Date Received:	07/11/2025
Bearing RTDs:	No
Stator RTDs:	No
Repair Stage:	Teardown Inspection
Rewind:	Yes
Shaft Machined Fit Repairs Required:	No
Bearing Housing Machined Fit Repairs Required:	Yes
Heaters:	No
Winding Type :	Random Wound
Bearing Type:	Rolling Element

Priorities Found: 4 - High

5 - Good

Overall Condition

0

Report Date

07/22/2025



3. Photos of all six sides of the machine.







РЗ





	4.	Describe the Overall Condition of the Equipment as Received		
		Failed surge test and requires. Machine work required in both end bells. Stickering is installed on motor but none is present.	er on side of motor says AEGIS	
	5.	Is this a UL Listed Motor	(NO) NO	
	6.	Is the motor water cooled or can be pressure checked before teardown	(NO) NO	
In	itial I	Mechanical/Electrical		O
	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	0.0005 Inches	
	11.	Assembled Shaft End Play	0 inches	
	12.	Air Gap Variation <10%	No Provisions for measurement	
	13.	Lead Condition	(P) Pass	
	14.	Lead Length	12 Inches	P14



Measurement from outer edge of j box

15.	Does it have Lugs?, If so what is the Stud Size?	(YES) YES	
-	1/2		
16.	Lead Numbers	1-12	
17.	Are the Leads insulated with Chico or other material	(NO) NO	
18.	Frame Condition	Pass	
19.	Fan Condition	(P) Pass	
20.	Does motor have internal fan?	(NO) NO	
21.	Broken or Missing Components	None	

Initial Electrical Inspection



22. Insulation Resistance/Megger

92000 Megohms

P22



23. Winding Resistance P23

1-2 1-3 2-3

.016033 .016001 .016055



24. Perform Surge Test P24



25. Number of Stator Slots 48

26. Stator Condition Requires rewind P26



27.	Stator Thermistors/Ohms	N/A	
28.	Stator Overloads/Ohms	N/A	
Mecha	nical Inspection		О
29.	Drive End Bearing Brand	C&U	
30.	Drive End Bearing Number-	6314 C3	
31.	Drive End Bearing Qty.	1	
32.	Drive End Bearing Type	(Ball) Ball Bearing	
33.	Drive End Lubrication Type	(Grease) Grease Lubricated	
34.	Drive End Bearing Insulation or Grounding Device?	None	
35.	Drive End Wavy Washer/Snap-Ring Other Retention Device?	None	
36.	Drive End Bearing Condition		P36



37.	Opposite Drive End Bearing Brand	C&U	
38.	Opposite Drive End Bearing Number-	6314 C3	
39.	Opposite Drive End Bearing Qty.	1	
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 and springs	



45.	Drive End Seal	Good	
46.	Opposite Drive End Seal	Good	
Rotor	Inspection		
47.	Rotor Type/Material	(Squirrel Aluminum) Squirrel Cage Aluminum Die Cast	
48.	Growler Test	(Pass) Pass	
49.	Number of Rotor Bars	42	
50.	Rotor Condition	Pass	
51.	List the Parts needed for the Repair Below Rewind Lugs 1/2" x wire size 6314 C3 insulated 6314 ZC3 Aegis ring SGR-82.1-3FH [Mfr# SGR-82.1-104.1-3FH]		

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Mecha	nical Fits- Rotor			
53.	Shaft Runout		0.001 inches	
54.	Rotor Runout			
	Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing	
	0.001	0.001	0.001	
55.	Coupling Fit Closest to Bearing	ng Housing		
	0 Degrees	90 Degrees	120 Degrees	
	2.3745	2.3745	2.3745	
56.	Coupling Fit Closest to the en	d of the Shaft		
	. •			
	0 Degrees	60 Degrees	120 Degrees	
		60 Degrees 2.3745	120 Degrees 2.3745	
57.	0 Degrees	· ·	o de la companya de	
57.	0 Degrees 2.3745	· ·	o de la companya de	
57.	0 Degrees 2.3745 Drive End Bearing Shaft Fit	2.3745	2.3745	
57.	0 Degrees 2.3745 Drive End Bearing Shaft Fit 0 Degrees	2.3745 60 Degrees	2.3745 120 Degrees	

	59.	Opposite Drive End Bearing Shaft	Fit		
		0 Degrees	60 Degrees	120 Degrees	
		2.7564	2.7564	2.7564	
-		Tolerance is 2.7560-2.7565			
	60.	Opposite Drive End Bearing Shaft	Fit Condition	(P) Pass	
	61.	Shaft Air Seal Fits			
		Drive End Air Seal	Opposite Drive End Air Seal		
		Pass	Pass		
Ме	char	nical Fits- Bearing Housings			
	62.	Drive End - Endbell Bearing Fit			
		0 Degrees	60 Degrees	120 Degrees	
		6.9074	6.9074	6.9074	
•		Tolerance is 5.9055-5.9065			
		Drive End - Endbell Bearing Fit Co		(F) Fail	
	64.	Opposite Drive End - Endbell Bea	ring Fit		
		0 Degrees	60 Degrees	120 Degrees	
		5.9076	5.9076	5.9076	
-		Tolerance is 5.9055-5.9065			
_		Opposite Drive End - Endbell Bea	ring Fit Condition	(F) Fail	
	66.	Bearing Cap Condition			
		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			
		Bore and bush both end bells.			
	69.	Technician		Brandon Woodard	
Ro	ot Ca	ause of Failure			
		Failure locations			
		Root cause of failure			
	wind				
	72.	THERMAL DETECTION EQUIPM RTD'S/KLIXONS/THERMISTORS			

Assembly

- 73. Was a Insulated bearing or end bell tested?
- 74. Motor RPM