



## AC Inspection as Found

**Scepter**  
1485 SCEPTER LN  
WAVERLY, TN 37185

FolderID: 154775  
FormID: 23441821



### AC Inspection - Rev. 2

Location: Cast House

Serial Number:

Hi-Speed Job Number:	154775
Manufacturer:	Other
Spec/ID #:	PEWWE200-18-445/7TSC
Serial Number:	ZP 1025857VWIJ
HP/kW:	200 (HP)
RPM:	1790 (RPM)
Frame:	445/7TSC
Voltage:	230 / 460
Current:	458/229 (Amps)
Phase:	Three
Hz:	60 (Hz)
Service Factor:	1.25
Enclosure:	TEFC
# of Leads:	12
J-box Included:	Complete
Coupling/Sheave:	None
Date Received:	02/07/2025
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 ● 46 - Good

### Overall Condition



● 1. Report Date

02/18/2025





#### 4. Describe the Overall Condition of the Equipment as Received

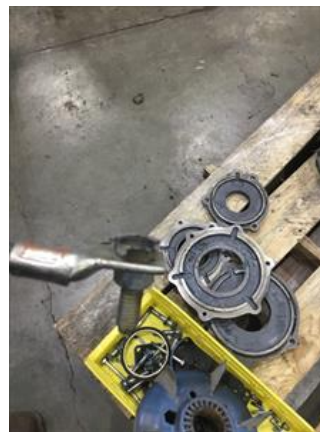
*Recon with 2 B&B*

#### Initial Mechanical/Electrical



5.	Does Shaft Turn Freely?	(Y) Yes
6.	Does the shaft require T.I.R in Lathe to identify additional repairs?	(No) No
7.	Does Shaft Have Visible Damage?	(No) No
8.	Assembled Shaft Runout	0.001 Inches
9.	Assembled Shaft End Play	0.002 inches
10.	Air Gap Variation <10%	no provision for measurement
11.	Lead Condition	(P) Pass
12.	Lead Length	18 Inches
13.	Does it have Lugs?, If so what is the Stud Size?	(No) No
14.	Lead Numbers	1-12
15.	Frame Condition	good
16.	Fan Condition	(P) Pass
17.	Does motor have internal fan?	(No) No
18.	Broken or Missing Components	grounding stud

P18

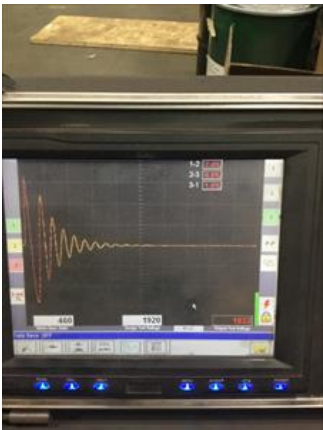


#### Initial Electrical Inspection





1-2	1-3	2-3
.019934	.019824	.019894



22. Number of Stator Slots	48
23. Stator Condition	good
24. Stator Thermistors/Ohms	N/A
25. Stator Overloads/Ohms	N/A

Mechanical Inspection	
26. Drive End Bearing Brand	FAG

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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 present
32. Drive End Wavy Washer/Snap-Ring Other Retention Device?	none present
33. Drive End Bearing Condition	normal wear

P33



34. Opposite Drive End Bearing Brand	FAG
35. Opposite Drive End Bearing Number-	6313 zz c3



P35




36. Opposite Drive End Bearing Qty.	1
37. Opposite Drive End Bearing Type	(Ball) Ball Bearing

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38.	Opposite Drive End Lubrication Type	(Grease) Grease Lubricated	
39.	Opposite Drive End Bearing Insulation or Grounding Device?	none present	
40.	Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?	Snap-ring outboard bearing	
41.	Opposite Drive End Bearing Condition	normal wear	P41


42.	Drive End Seal	RB 95-115-5.5	P42
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43.	Opposite Drive End Seal	none present	
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**Rotor Inspection**



44.	Rotor Type/Material	(Squirrel Aluminum) Squirrel Cage Aluminum Die Cast	
45.	Growler Test	(Pass) Pass	
46.	Number of Rotor Bars	44	
47.	Rotor Condition	good	
48.	List the Parts needed for the Repair Below 1- 6313 zz c3 bearing 1- RB 95-115-5.5 slinger with metal housing 1- 6319 zz c3 bearing		
49.	Signature of Technician that Disassembled Motor	Nigel Hill	



**Mechanical Fits- Rotor**



50.	Shaft Runout	
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51.	Rotor Runout		
	Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing
52.	Coupling Fit Closest to Bearing Housing		
	0 Degrees	90 Degrees	120 Degrees
	2.375	2.375	2.375
53.	Coupling Fit Closest to the end of the Shaft		
	0 Degrees	60 Degrees	120 Degrees
	2.375	2.375	2.375
54.	Drive End Bearing Shaft Fit		
	0 Degrees	60 Degrees	120 Degrees
	3.7405	3.7405	3.7405
	Tolerance is 3.7403-3.7409		
			
55.	Drive End Bearing Shaft Fit Condition		(P) Pass
56.	Opposite Drive End Bearing Shaft Fit		P56
	0 Degrees	60 Degrees	120 Degrees
	2.5595	2.5595	2.5595
	Tolerance is 2.5592-2.5597		
			
57.	Opposite Drive End Bearing Shaft Fit Condition		(P) Pass
58.	Shaft Air Seal Fits		
	Drive End Air Seal	Opposite Drive End Air Seal	
	Pass	Pass	

Mechanical Fits- Bearing Housings

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59.	Drive End - Endbell Bearing Fit			P59
	0 Degrees	60 Degrees	120 Degrees	
	7.8765	7.8765	7.8765	
	Tolerance is 7.8740-7.8751			
				
60.	Drive End - Endbell Bearing Fit Condition			(F) Fail
61.	Opposite Drive End - Endbell Bearing Fit			P61
	0 Degrees	60 Degrees	120 Degrees	
	5.5138	5.5137	5.514	
	Tolerance is 5.5118-5.5128			
				
62.	Opposite Drive End - Endbell Bearing Fit Condition			(F) Fail
63.	Bearing Cap Condition			
	Drive End Bearing Cap	Opposite Drive End Bearing Cap		
	Pass	Pass		
64.	End Bell Air Seal Fits			
	Drive End Air Seal	Opposite Drive End Air Seal		
	Pass	Pass		
65.	List Machine Work Needed Below			
	Bore and bush both end bells.			
66.	Technician			Brandon Woodard





Root Cause of Failure
67. Failure locations
68. Root cause of failure