

LR MOTORSHOP

# AC Inspection as Found Arauco-Malvern MDF (10298) 1275 Willamette Rd

Description:75 HP TECO TEFC

AC Inspection - Rev. 2

Malvern, AR 72104

Serial Number:

Location:

FolderID: 101974 FormID: 18127311

Hi-Speed Job Number:	101974
Manufacturer:	TECO Westinghouse
Serial Number:	CXP7127305008
HP/kW:	75 (HP)
RPM:	1775 (RPM)
Frame:	365T
Voltage:	230 / 460
Current:	170.2 / 85.1
Phase:	Three
Hz:	60 (Hz)
Service Factor:	1.15
Enclosure:	TEFC
# of Leads:	12
J-box Included:	None
Coupling/Sheave:	None
Date Received:	10/11/2023
Bearing RTDs:	No
Stator RTDs:	No
Repair Stage:	Final
Rewind:	No
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: **2 - High** 

#### 🕽 6 - Good

### **Overall Condition**

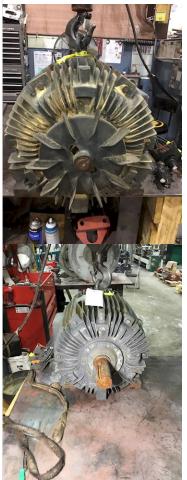
Report Date 1.

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3. Photos of all six sides of the machine.





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

# **Initial Mechanical/Electrical**

5. Does Shaft Turn Freely?
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6. Does Shaft Have Visible Damage?

- 7. Assembled Shaft Runout
- 8. Assembled Shaft End Play
- 9. Air Gap Variation <10%
- 🗭 Na

10. Lead Condition



11. Lead Length

12 Inches

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(Yes) Yes

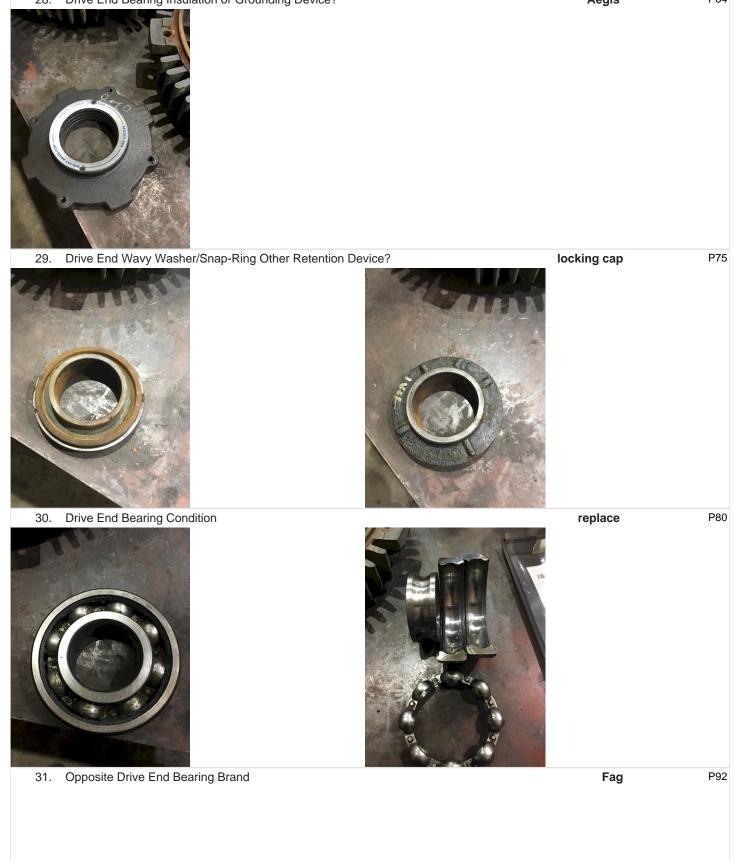
0.004 Inches 0 inches

(No) No

12. Lead Numbers 1-12) 2-10) 3-11). 4-7, 5-8, 6-9	1-12	
13. Frame Condition	pass	
• 14. Fan Condition	(P) Pass	P109
15. Broken or Missing Components	missing connection box.	-
Initial Electrical Inspection 16. Insulation Resistance/Megger	Megohms	P8
No.   Ten Boold     Imm   Ten Boold   To   Boold   Bo		
17. Winding Resistance		P20
Image: set of the set of	1-3 2-3	

18. Perform Surge Test	(P) Pass	P58
	Note:   Total:   Image: Control of the cont	
19. Number of Stator Slots   20. Stator Condition	48 pass	
21. Stator Thermistors/Ohms	na	
22. Stator Overloads/Ohms	na	
Mechanical Inspection 23. Drive End Bearing Brand		<b>D</b> P15
A Prive Field Descine Number		828
24. Drive End Bearing Number-	6313 2Z. C3	P28
25. Drive End Bearing Qty.	1	
26. Drive End Bearing Type	(Ball) Ball Bearing	
27. Drive End Lubrication Type	(Grease) Grease Lubricated	







32.	Opposite Drive End Bearing Number-	6213 2Z C3	P97
33.	Opposite Drive End Bearing Qty.	1	
34.	Opposite Drive End Bearing Type	(Ball) Ball Bearing	
35.	Opposite Drive End Lubrication Type	(Grease) Grease Lubricated	
00			
36.	Opposite Drive End Bearing Insulation or Grounding Devic	e? none	
36. 37.	Opposite Drive End Bearing Insulation or Grounding Devic Opposite Drive End Wavy Washer/Snap-Ring Other Reten		115
	Opposite Drive End Wavy Washer/Snap-Ring Other Reten		1115
37.	Opposite Drive End Wavy Washer/Snap-Ring Other Retent		1115
37. 37. 38. 39.	Opposite Drive End Wavy Washer/Snap-Ring Other Retent	tion Device? Iocking cap P	1115
37. 37. 38. 38. 39. 40.	Opposite Drive End Wavy Washer/Snap-Ring Other Retent	tion Device? Iocking cap P	1115

	41.	Rotor Type/Material		(Squirrel Aluminum) Squirrel Cage Aluminum Die Cast	P3
	42.	Growler Test		(Pass) Pass	
	43.	Number of Rotor Bars		40	
	44.	Rotor Condition		pass	
	45. 46.	List the Parts needed for the Rep Signature of Technician that Disa		Terrence Holland	
	/	Z fo	lla		
M		nical Fits- Rotor		0.000 il.	
	47.	Shaft Runout		0.003 inches	
	48.	Rotor Runout	Potor Pody	Opposite Drive End Peering	
		Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing	
	-	Na			
	49.	Coupling Fit Closest to Bearing H	lousing		
		0 Degrees	90 Degrees	120 Degrees	
		0	5	5	
	•	Na			
	50.	Coupling Fit Closest to the end of	the Shaft		
		0 Degrees	60 Degrees	120 Degrees	
	-	Na			
	51.	Drive End Bearing Shaft Fit			
		0 Degrees	60 Degrees	120 Degrees	
	=0	2.5594	2.5594	2.5594	
	52.	Drive End Bearing Shaft Fit Cond		(P) Pass	
	53.	Opposite Drive End Bearing Shaf		120 Degrees	
		0 Degrees 2.5594	60 Degrees 2.5595	120 Degrees 2.5594	
	54.	Opposite Drive End Bearing Shaf		(P) Pass	
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55.	Shaft Air Seal Fits				
	Drive End Air Seal	Opposite Drive End	Air Seal		
	Na				
Mecha	nical Fits- Bearing Housin	ngs		0	
56.	Drive End - Endbell Bearing	Fit			P2
	0 Degrees	60 Degrees	120 Degrees		
	5.5133	5.5134	5.5133		
<b>5</b> 7.	Drive End - Endbell Bearing	Fit Condition		(F) Fail	
58.	Opposite Drive End - Endbel	I Bearing Fit			
	0 Degrees	60 Degrees	120 Degrees		
	4.7256	4.7257	4.7257		
59.	Opposite Drive End - Endbel	I Bearing Fit Condition		(F) Fail	P38

60.	Bearing Cap Condition	F
	Drive End Bearing Cap	Opposite Drive End Bearing Cap
	pass	
61.	End Bell Air Seal Fits	
	Drive End Air Seal	Opposite Drive End Air Seal
-	Na	
62.	List Machine Work Needed Bele Both end bell housing fits pitted	
63.	Technician	
Root C	Cause of Failure	
64.	Failure locations	
	Housing fits bad and bearing gre d.e bearing cap. Aegis shaft dia	ease was contaminated in both bearings. Recommend replacing aegis ring on 2.9470
	a.e bearing cap. Aegis shart dia	
65.	Root cause of failure	
	Root cause of failure Housing fits bad and bearing gre	
Dynam	Root cause of failure Housing fits bad and bearing gre nic Balance Report	
	Root cause of failure Housing fits bad and bearing gre	

67.	Initial Balance Readings			P11
	Drive End	Opposite Drive End		P11
68.	Final Balance Readings			
	Drive End	Opposite Drive End		
69.	Technician			
	nical Fits- Bearing Housing	s - Post Repair		0
70.				_
	0 Degrees	60 Degrees	120 Degrees	
71.	Opposite Drive End - Endbell Bo	earing Fit Post Repair		P19
	0 Degrees	60 Degrees	120 Degrees	
	4.725	4.725	4.7251	
72.	Bearing Cap Condition Post Re			
72.	Bearing Cap Condition Post Re Drive End Bearing Cap	opair Opposite Drive End Bearing Cap		
72. 73.		Opposite Drive End Bearing Cap		

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# Assembly

- 75. QC Check All Parts for Cleanliness Prior to Assembly
- 76. Photograph All Major Components prior to assembly













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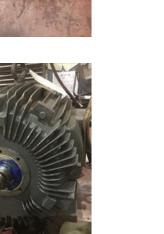
Printed on 12/14/2023

Gary

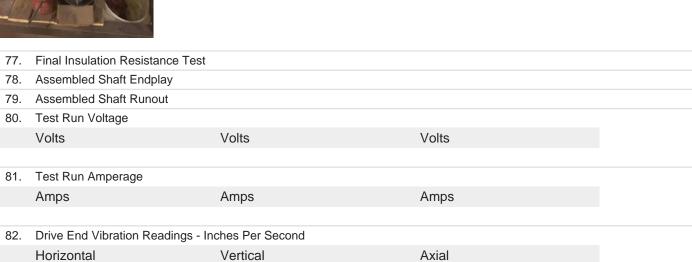
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	0.04	0.06	0.03	
83.	Opposite Drive End Vibration R	eadings - Inches Per Second		
	Horizontal	Vertical	Axial	
	0.03	0.04	0.02	
84.	Ambient Temperature - Fahren	heit		
85.	Drive End Bearing Temps - Fat	nrenheit		
	5 Minutes	10 Minutes	15 Minutes	
86.	Opposite Drive End Bearing Te	mps - Fahrenheit		
	5 Minutes	10 Minutes	15 Minutes	
87.	Document Final Condition with	Pictures after paint		
88.	Final Pics and QC Review	Ille 1	Terrence Holland	P128
-	Co witness: cw			