

Motor Shop Repairs

Job Number 99681

Prepared for Electric Motor Center

804 N. Jefferson Springdale AR 72764

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AC Recondition As Found - Shop

AC Recondition - Rev. 2: FR. C066613-1

1.0



FolderID: 99681

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AC Recondition As Found

Electric Motor Center

804 N. Jefferson Springdale, AR 72764

AC Recondition - Rev. 2

Serial Number: FR. C066613-1

Description: 1000HP Teco 3600RPM 5810A

Shop

2300/4160V

Location:

Hi-Speed Job Number:	99681
Manufacturer:	TECO Westinghouse
Product Number:	P100002
Serial Number:	FR.C066613-1
HP/kW:	1000 (HP)
RPM:	3565 (RPM)
Frame:	5810A
Voltage:	2300/4160
Current:	213/118
Phase:	Three
Hz:	60 (Hz)
Service Factor:	1.15
Enclosure:	ODP
J-box Included:	Complete
Coupling/Sheave:	None
Date Received:	04/20/2022
Repair Stage:	Teardown Inspection

Priorities Found: 3 - High





2 - Medium



6 - Good

Overall Condition

- 1. Report Date
- Nameplate Picture

















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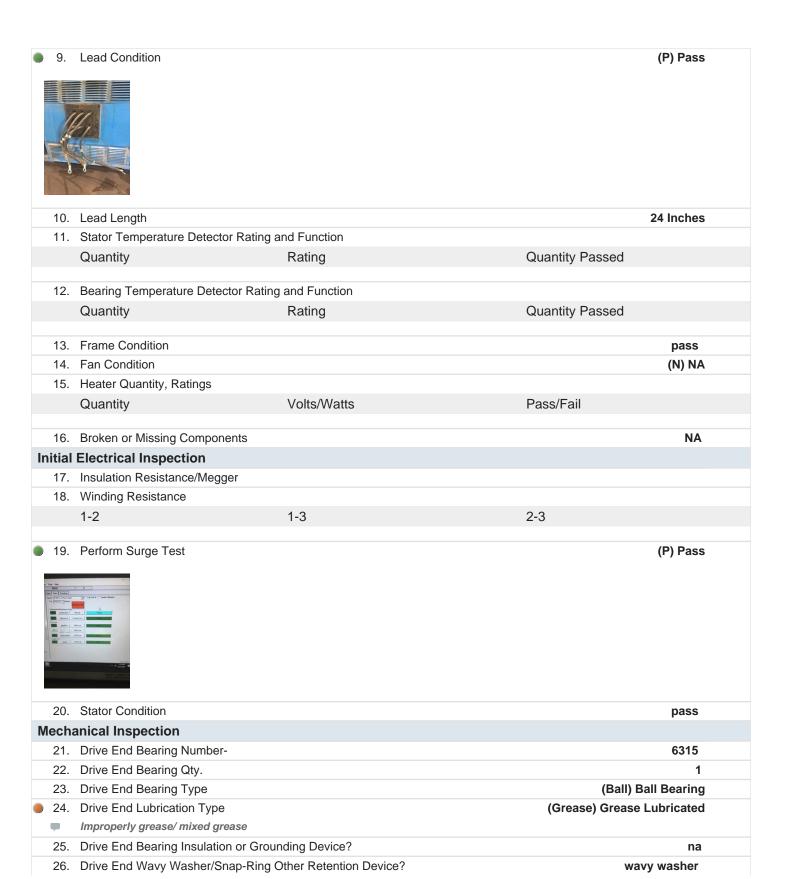
3. Describe the Overall Condition of the Equipment as Received

Initial Mechanical/Electrical

4. Does Shaft Turn Freely?
 5. Does Shaft Have Visible Damage?
 6. Assembled Shaft Runout
 (Yes) Yes
 (No) No
 0.004 Inches

7. Assembled Shaft End Play

8. Air Gap Variation <10%



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27. Drive End Bearing Condition

Signs of frosting





28.	Opposite Drive End Bearing Number-	6315
29.	Opposite Drive End Bearing Qty.	1
30.	Opposite Drive End Bearing Type	(Ball) Ball Bearing
-	Insulated bearing	
3 1.	Opposite Drive End Lubrication Type	(Grease) Grease Lubricated
_	Missalawaaa	
_	Mixed grease	
32.		insulated bearing
32. 33.		insulated bearing na
	Opposite Drive End Bearing Insulation or Grounding Device?	
33.	Opposite Drive End Bearing Insulation or Grounding Device? Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?	





35.	. Drive End Seal na					
36.	Opposite Drive End Seal		na			
Rotor Inspection						
37.	7. Rotor Type/Material		(Copper Barred) Copper Barred Rotor			
38.	Growler Test		(Pass) Pass			
39.). Number of Rotor Bars					
40.	Rotor Condition		pass			
41.	List the Parts needed for the Re	epair Below				
	Bearings, machine work, aegis ri	ng				
42.	Signature of Technician that Disassembled Motor		Cw			
Mechanical Fits- Rotor						
43.	Shaft Runout					
44.	Rotor Runout					
	Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing			
45.	Coupling Fit Closest to Bearing	Housing				
	0 Degrees	90 Degrees	120 Degrees			

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	46.	Coupling Fit Closest to the end of the Shaft					
		0 Degrees	60 Degrees	120 Degrees			
	47.	Drive End Bearing Shaft Fit					
		0 Degrees	60 Degrees	120 Degrees			
	_	_					
	-	Pass			(5) 5		
	48.	Drive End Bearing Shaft Fit Condition			(P) Pass		
	49.	Opposite Drive End Bearing Shaft Fit					
		0 Degrees	60 Degrees	120 Degrees			
		Pass					
					(D) Doos		
	50.	Opposite Drive End Bearing Shaft Fit	Condition		(P) Pass		
	51.	Shaft Air Seal Fits	0 " D: E IA: 0 I				
		Drive End Air Seal	Opposite Drive End Air Seal				
D.O	ocho	anical Fits- Bearing Housings					
IVI							
	52.	Drive End - Endbell Bearing Fit	00 D	100 D			
		0 Degrees	60 Degrees	120 Degrees			
	_	Pitted					
	53.	Drive End - Endbell Bearing Fit Condit	tion		(F) Fail		
	54.	Opposite Drive End - Endbell Bearing	Fit				
		0 Degrees	60 Degrees	120 Degrees			
	7	Has lip worn in it					
	55.	Opposite Drive End - Endbell Bearing	Fit Condition		(F) Fail		
	56.	Bearing Cap Condition					
		Drive End Bearing Cap	Opposite Drive End Bearing Cap				
	_						
		Pass					
	57.	End Bell Air Seal Fits					
		Drive End Air Seal	Opposite Drive End Air Seal				

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58. List Machine Work Needed Below

Both end bell bearing fits

59. Technician

Cw

Root Cause of Failure

60. Failure locations

61. Root cause of failure

Sever wear and electrical discharge into the bearings

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- 8. <u>WARRANTIES.</u> Hi-Speed warrants that all goods shall conform in all material aspects to the goods identified in the quotation to Buyer and/or purchase order, and Hi-Speed makes to Buyer the manufacturer's express warranty for any goods sold to Buyer, which is offered by the manufacturer at the time of acceptance of any quotation by Buyer. This warranty is conditioned upon the installation, operation, and maintenance of the goods in accordance with the manufacturer's recommendations and/or standard industry practice and the goods at all times being operated or used under normal operating conditions for which they were designed. Hi-Speed, at its sole option, will repair or

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- 12. ABANDONED EQUIPMENT. Hi-Speed requires that Buyer promptly pick up or provide shipment instructions for Buyer equipment or other Buyer property in Hi-Speed's possession. If equipment or other Buyer property is left with Hi-Speed and not picked up within six (6) months after Hi-Speed's final action related to the applicable property (e.g. evaluation, teardown, estimate, completion of services), Hi-Speed will consider such property abandoned and may dispose of it in accordance with applicable law. Buyer agrees to hold Hi-Speed harmless for any damage or claim for such abandoned property and acknowledges that Hi-Speed may discard or recycle it at Hi-Speed's sole and absolute discretion. Specifically, Hi-Speed may sell Buyer's abandoned property at a private or public sale and retain the proceeds to offset Hi-Speed's storage, inspection and servicing costs. For the avoidance of doubt, Hi-Speed reserves its statutory and other lawful liens for unpaid charges related to abandoned property.
- 13. FORCE MAJEURE. Neither party shall be responsible for any delay or failure in performance of any party of the quotation, purchase order or these Standard Terms and Conditions to the extent that such delays or failures are caused by fire, flood, earth quake, explosion, war, embargo, government requirement, civil or military authority, acts of God, or any other circumstances beyond its reasonable control and not involving any fault or negligence on the party affected ("Condition"). If any such Condition occurs, the party delayed or unable to perform shall promptly give written notice to the other party and, if such Condition remains at the end of thirty (30) days, the party affected by the other party's delay and inability to perform may elect to (i) terminate such order or part thereof, or (ii) suspend the order for the duration of the Condition, if the Buyer is the suspending party, buy elsewhere comparable material to be sold under the order and apply to any commitment the purchase price of such purchase, and resume performance of the order once the Condition ceases, with an option in the affected party to extend the period of this order up to the length of the time the Condition endures.
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