

AC Inspection as Found American Kraft Paper 1701 Jefferson Parkway White Hall, AR 71602

FolderID: 104086 FormID: 23256287

AC Inspection - Rev. 2

MOTOR SHOP LR Location: Serial Number: WCE9179032001 Description: 125HP TECO 1780RPM

Hi-Speed Job Number:	104086
Manufacturer:	TECO Westinghouse
Product Number:	TYPE: AEHH8P-10R
Spec/ID #:	CAT: NP1254R
Serial Number:	WCE9179032001
HP/kW:	125 (HP)
RPM:	1780 (RPM)
Frame:	444T
Voltage:	230 / 460
Current:	292 (Amps)
Phase:	Three
Hz:	60 (Hz)
Service Factor:	1.15
Enclosure:	TEFC
# of Leads:	12
J-box Included:	None
Coupling/Sheave:	None
Date Received:	05/02/2025
Bearing RTDs:	No
Stator RTDs:	No
Repair Stage:	Final
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

Priorities Found: **a** 2 - High

11 - Good

Overall Condition

Report Date

02/03/2025

P45

2. Nameplate Picture



3. Photos of all six sides of the machine.













4. Describe the Overall Condition of the Equipment as Received Windings are shorted. Needs rewind and bearings.

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	0.0015 Inches
	9.	Assembled Shaft End Play	0 inches
	10.	Air Gap Variation <10%	
	-	Na	
	11.	Lead Condition	(P) Pass





17. Does motor have internal fan? (No) No

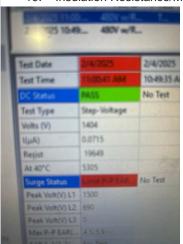
18. Broken or Missing Components broken screw shaft air fit seal. P124 no j-box

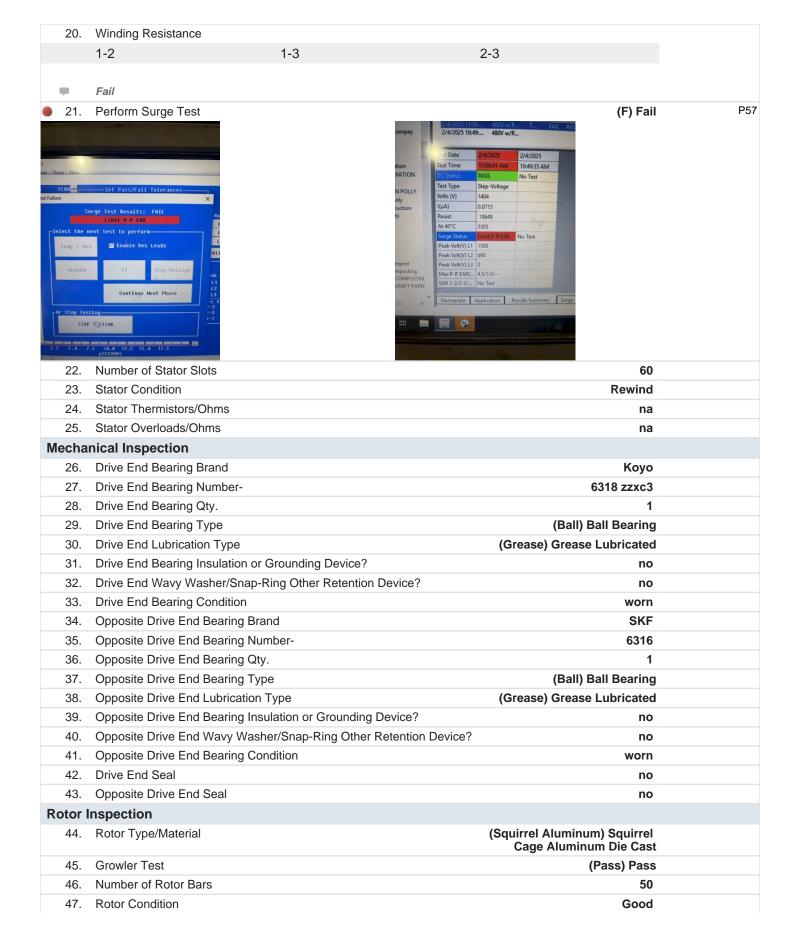


Initial Electrical Inspection

19. Insulation Resistance/Megger 0 Megohms P8

0





48. List the Parts needed for the Repair Below
6318zzc3
6316zzc3
Rewind

49. Signature of Technician that Disassembled Motor

Shon /Trevor

1-JU/

M	echai	nical Fits- Rotor			
	50.	Shaft Runout		0.001 inches	
	51.	Rotor Runout			
		Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing	
		0.002	0.002	0.003	
	52.	Coupling Fit Closest to Bearing H	ousing		
		0 Degrees	90 Degrees	120 Degrees	
		3.3735	3.3733	3.3735	
	53.	Coupling Fit Closest to the end of	the Shaft		
		0 Degrees	60 Degrees	120 Degrees	
		3.3746	3.3746	3.3746	
	54.	Drive End Bearing Shaft Fit			
		0 Degrees	60 Degrees	120 Degrees	
		3.544	3.5439	3.5439	
	55.	Drive End Bearing Shaft Fit Cond	ition	(P) Pass	
	56.	Opposite Drive End Bearing Shaf	t Fit		
		0 Degrees	60 Degrees	120 Degrees	
		3.1498	3.1499	3.1499	
	57.	Opposite Drive End Bearing Shaf	t Fit Condition	(P) Pass	
	58.	Shaft Air Seal Fits			
		Drive End Air Seal	Opposite Drive End Air Seal		
		good	good		
M	echai	nical Fits- Bearing Housings			
	59.	Drive End - Endbell Bearing Fit			
		0 Degrees	60 Degrees	120 Degrees	
		7.4812	7.4813	7.4813	
	60.	Drive End - Endbell Bearing Fit C		(P) Pass	
	61.	Opposite Drive End - Endbell Bea	aring Fit		
		0 Degrees	60 Degrees	120 Degrees	
		6.6941	6.6941	6.6941	
	•	.0002 over max			
	62.	Opposite Drive End - Endbell Bea	aring Fit Condition	(P) Pass	
	63.	Bearing Cap Condition			
		Drive End Bearing Cap	Opposite Drive End Bearing Cap		
		good	good		
	64.	End Bell Air Seal Fits			
		Drive End Air Seal	Opposite Drive End Air Seal		
		good	good		

List Machine Work Needed Below None

Shon/Trevor Finished 66. Technician



Co-sign TRH

Root Cause of Failure

67. Failure locations

Windings failed. They got hot and shorted.

68. Root cause of failure

Overloading of the windings

Dynamic Balance Report

Rotor Weight and Balance Grade

Rotor Weight

Balance Grade

See below

70. Initial Balance Readings

Drive End	Opposite Drive End
1.35	.40

71. Final Balance Readings

P27

0

Drive End Opposite Drive End .28

.07



72. Technician **Terrence Holland**

Rewind

Core Test Results - Watts loss per Pound

Pre-Burnout Post Burnout

74.	Core Hot Spot Test				
	Pre-Burnout	Post-Burnout			
75.	Post Rewind Electrical Test- Insu	lation Resistance		Megohms	
76.	Post Rewind Polarization Index		F	Polarization Index	
77.	Post Rewind Winding Resistance				
	1-2	1-3	2-3		
78.	Post Rewind Surge Test				
79.	Post Rewind Hi-Pot			micro-amps	
80.	Technician				

Assembly

0

81. QC Check All Parts for Cleanliness Prior to Assembly

Terrence Holland



82. Photograph All Major Components prior to assembly

P17



































83. Final Insulation Resistance Test

4.59 Gigohms

P31



84.	Assembled Shaft Endplay			0 inches	
85.	Assembled Shaft Runout			0.002 inches	
86.	Test Run Voltage				P55
	Volts	Volts	Volts		
	455	454	458		



87	'. Test Run Amperage			P65
	Amps	Amps	Amps	
	43.5	39.5	40.1	



88.	88. Drive End Vibration Readings - Inches Per Second			
	Horizontal	Vertical	Axial	
	0.06	0.05	0.06	
89.	Opposite Drive End Vibration Rea	adings - Inches Per Second		
	Horizontal	Vertical	Axial	
	0.02	0.01	0.03	
90.	Ambient Temperature - Fahrenhe	it		
91.	1. Drive End Bearing Temps - Fahrenheit			
	5 Minutes	10 Minutes	15 Minutes	
92.	Opposite Drive End Bearing Tem	ps - Fahrenheit		
	5 Minutes	10 Minutes	15 Minutes	
93.	Document Final Condition with Pi	ctures after paint	see below	
94.	Final Pics and QC Review		Terrence Holland	P132

Co sign: DM









