

AC Recondition As Found

Twin Rivers (12049)

3501 Jefferson Parkway Pine Bluff, AR 71602

AC Recondition - Rev. 2

Location:	Shop
Serial Number:	YZH714B713001
Description:75HF	P TECO 1800RPM 365T

100078
TECO Westinghouse
YZH714B713001
75 (HP)
1775 (RPM)
365T
230 / 460
170.2/85.1
Three
60 (Hz)
1.15
TEFC
Complete
None
No
No
Teardown Inspection
No
Random Wound
Rolling Element

Priorities Found: 🛑 4 - High

🔵 5 - Good

Overall Condition

- 1. Report Date
- 2. Nameplate Picture





7030 Ryburn Dr Millington, Tn 38053 901-873-5300

> FolderID: 100078 FormID: 14160702

Hi-Speed Industrial Service

P37

Ο

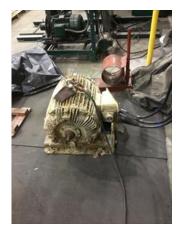














Mount bolts corroded and need replacing.

















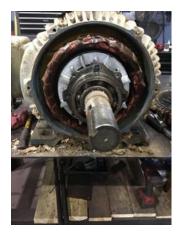
























3. Photos of all six sides of the machine.





P48



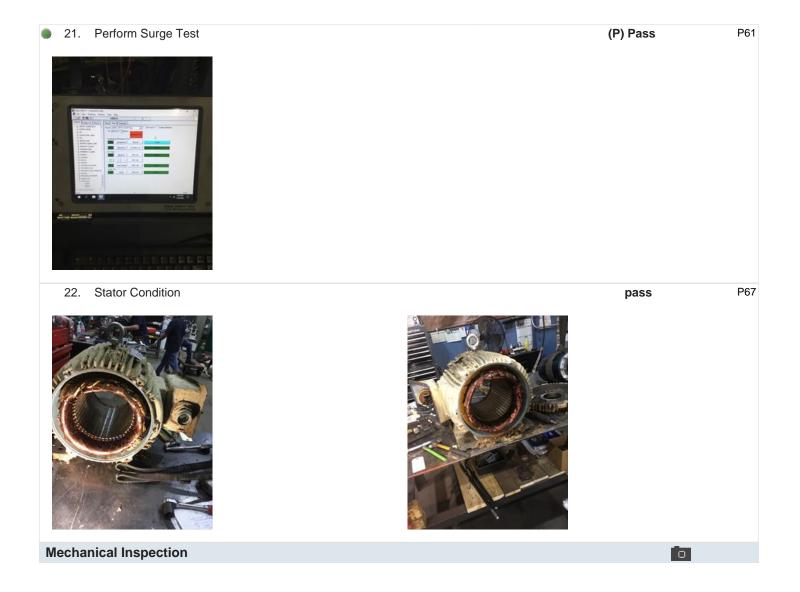
	-			
	4.	Describe the Overall Condition of the Equipment as Rec	eived	
	5.	Distance from the end of the shaft to the Coupling/Sheav	/e 1 inches	
In	itial I	Mechanical/Electrical		o
	6.	Does Shaft Turn Freely?	(Yes) Yes	
	7.	Does Shaft Have Visible Damage?	(No) No	P20
	8.	Assembled Shaft Runout	0.001 Inches	
	9.	Assembled Shaft End Play	0 inches	
	10.	Air Gap Variation <10%		
	11.	Lead Condition	(F) Fail	P54

8 Inches

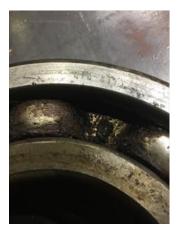
Hi-Speed Industrial Service disclaims all warranties, both express and implied, relating to the information, reports, opinions and analysis disclosed to the Customer by Hi-Speed. Hi-Speed shall not be liable for any errors or omissions, or any losses, injury or damages arising from the use of such information, reports, opinions and analysis by the Customer.

12. Lead Length

		ating and Function		
	Quantity	Rating	Quantity Passed	
14.	Bearing Temperature Detector			
	Quantity	Rating	Quantity Passed	
15.	Frame Condition		nace	
15.	Frame Condition		pass (P) Pass	P102
17.				
	Quantity	Volts/Watts	Pass/Fail	
18.				
	Broken or Missing Components	5	<section-header></section-header>	P109
	Broken or Missing Components	5		P109
				P105
nitial	Electrical Inspection	1-3	<section-header><image/></section-header>	P10



23. Drive End Bearing Number-







24.	Drive End Bearing Qty.	1	
25.	Drive End Bearing Type	(Ball) Ball Bearing	
26.	Drive End Lubrication Type	(Grease) Grease Lubricated	
27.	Drive End Bearing Insulation or Grounding Device?	none	
28.	Drive End Wavy Washer/Snap-Ring Other Retention Device?	none	
29.	Drive End Bearing Condition	grease dirty and contaminated	

30. Opposite Drive End Bearing Number-





Hi-Speed Industrial Service disclaims all warranties, both express and implied, relating to the information, reports, opinions and analysis disclosed to the Customer by Hi-Speed. Hi-Speed shall not be liable for any errors or omissions, or any losses, injury or damages arising from the use of such information, reports, opinions and analysis by the Customer.

P87

6313

6213



31.	Opposite Drive End Bear	ing Qty.	1	
32.	Opposite Drive End Bear	ing Type	(Ball) Ball Bearing	
33.	Opposite Drive End Lubri	ication Type	(Grease) Grease Lubricated	
34.	Opposite Drive End Bear	ing Insulation or Grounding Device?	none	
35.	Opposite Drive End Wav	y Washer/Snap-Ring Other Retention Dev	vice? none	
36.	Opposite Drive End Bear	ing Condition	grease dirty and contaminated	
37.	Drive End Seal		none	
38.	Opposite Drive End Seal			
39.	DE Sleeve Bearing Inside	e Diameter		
	0 degrees	120 degrees	240 degrees	
40.	DE Sleeve Bearing Outsi	de Diameter		
	0 degrees	120 degrees	240 degrees	
41.	DE Sleeve Bearing Hous	ing Inside Diameter		
	0 degrees	120 degrees	240 degrees	
42.	DE Sleeve Bearing to Ho	using Clearance		
	0 degrees	120 degrees	240 degrees	
43.	ODE Sleeve Bearing Insi	de Diameter		
	0 degrees	120 degrees	240 degrees	
44.	ODE Sleeve Bearing Out	side Diameter		
	0 degrees	120 degrees	240 degrees	
45.	ODE Sleeve Bearing Hou	using Inside Diameter		
	0 degrees	120 degrees	240 degrees	
46.	ODE Sleeve Bearing to H	lousing Clearance		
	0 degrees	120 degrees	240 degrees	
otor	Increation		-	
	Inspection		0	

	47.	Rotor Type/Material		(Squirrel Aluminum) Squirrel Cage Aluminum Die Cast	P3
	48.	Growler Test		(Pass) Pass	
	49.	Number of Rotor Bars			
	50.	Rotor Condition		pass	
:	51.	List the Parts needed for the Replace sheave hub 2 3/8" and hardware mount bolts.		ase brackets. Replace worn and corroded	P50
	52.	Signature of Technician that I	Disassembled Motor		
		nical Fits- Rotor		0.001 11	
	53. 54.	Shaft Runout Rotor Runout		0.001 inches	
	54.	Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing	
	55.	Coupling Fit Closest to Bearir	ng Housing		
		0 Degrees	90 Degrees	120 Degrees	
	56.	Coupling Fit Closest to the er	nd of the Shaft		
		0 Degrees	60 Degrees	120 Degrees	
	57.	Drive End Bearing Shaft Fit			
		0 Degrees	60 Degrees	120 Degrees	
		2.5594	2.5594	2.5594	
	58.	Drive End Bearing Shaft Fit C	Condition	(P) Pass	

	59.	Opposite Drive End Bearing Shaf			
		0 Degrees	60 Degrees	120 Degrees	
		2.5598	2.5598	2.5598	
	60.	Opposite Drive End Bearing Shaf	ft Fit Condition	(P)	Pass
	61.	Shaft Air Seal Fits			
		Drive End Air Seal	Opposite Drive End Air Seal		
Μ	echa	nical Fits- Bearing Housings			0
	62.	Drive End - Endbell Bearing Fit			
		0 Degrees	60 Degrees	120 Degrees	
		5.5133	5.5134	5.5134	
	63.	Drive End - Endbell Bearing Fit C	ondition	(F) Fail P16
	.	Lip groove worn in fit			,
		p 3			
		the second s			
	- 14	The second second			
	10				
		1 m			
	K	TENESS AND			
	Con the	and the second sec			
	C				
	and the second				
	64.	Opposite Drive End - Endbell Bea	aring Fit		
		0 Degrees	60 Degrees	120 Degrees	
		4.7258	4.7257	4.7257	
	65.	Opposite Drive End - Endbell Bea	aring Fit Condition	(F)) Fail P42
	.	Lip groove worn in fit	C C C C C C C C C C C C C C C C C C C		
1					
	Sec. 1				
	N.	1.			
	X	and the second s			
	61	0			
	1- 5				
	P				
	Ast				
	Riv				
	1000				

66.	Bearing Cap Condition		P5
	Drive End Bearing Cap	Opposite Drive End Bearing Cap	
and the second s	pass		
67.	End Bell Air Seal Fits		
	Drive End Air Seal	Opposite Drive End Air Seal	
68.	List Machine Work Needed Bel	ow	
	Both housing fits bad. Motor mo	ount base brackets need replacement.	
69.	Technician	Те	errence. Holland
	2/1	lland	
/_		lla	
-	nic Balance Report	lland	
Dynan 70.	Rotor Weight and Balance Grad		
-		de Balance Grade	
-	Rotor Weight and Balance Grad Rotor Weight		
70.	Rotor Weight and Balance Grad Rotor Weight		
70.	Rotor Weight and Balance Grad Rotor Weight Initial Balance Readings Drive End	Balance Grade	
70.	Rotor Weight and Balance Grad Rotor Weight Initial Balance Readings	Balance Grade	
70. 71. 72.	Rotor Weight and Balance Grad Rotor Weight Initial Balance Readings Drive End Final Balance Readings Drive End	Balance Grade Opposite Drive End	
70. 71. 72. 73.	Rotor Weight and Balance Grad Rotor Weight Initial Balance Readings Drive End Final Balance Readings Drive End Technician	Balance Grade Opposite Drive End	
70. 71. 72. 73. Rewin	Rotor Weight and Balance Grad Rotor Weight Initial Balance Readings Drive End Final Balance Readings Drive End Technician	Balance Grade Opposite Drive End Opposite Drive End	
70. 71. 72. 73. Rewin	Rotor Weight and Balance Grad Rotor Weight Initial Balance Readings Drive End Final Balance Readings Drive End Technician d Core Test Results - Watts loss	Balance Grade Opposite Drive End Opposite Drive End	
70. 71. 72. 73. Rewin	Rotor Weight and Balance Grad Rotor Weight Initial Balance Readings Drive End Final Balance Readings Drive End Technician	Balance Grade Opposite Drive End Opposite Drive End per Pound	
70. 71. 72. 73. Rewin	Rotor Weight and Balance Grad Rotor Weight Initial Balance Readings Drive End Final Balance Readings Drive End Technician d Core Test Results - Watts loss Pre-Burnout	Balance Grade Opposite Drive End Opposite Drive End per Pound	
70. 71. 72. 73. Rewin 74.	Rotor Weight and Balance Grad Rotor Weight Initial Balance Readings Drive End Final Balance Readings Drive End Technician d Core Test Results - Watts loss Pre-Burnout	Balance Grade Opposite Drive End Opposite Drive End per Pound	
70. 71. 72. 73. Rewin 74.	Rotor Weight and Balance Grad Rotor Weight Initial Balance Readings Drive End Final Balance Readings Drive End Technician d Core Test Results - Watts loss Pre-Burnout Core Hot Spot Test	Balance Grade Opposite Drive End Opposite Drive End per Pound Post Burnout Post-Burnout	

78.	Post Rewind Winding Resistance			
	1-2	1-3	2-3	
79.	Post Rewind Surge Test			
80.	Post Rewind Hi-Pot			
81.	Technician			
	ause of Failure			
82.				
83.	Root cause of failure			
	nical Fits- Rotor - Post Repair			
84.	Shaft Runout Post Repair			
85.	Rotor Runout Post Repair			
	Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing	
86.	Coupling Fit Closest to Bearing Ho	ousing Post Repair		
	0 Degrees	90 Degrees	120 Degrees	
87.	Coupling Fit Closest to the end of	the Shaft Post Repair		
	0 Degrees	60 Degrees	120 Degrees	
88.	Drive End Bearing Shaft Fit Post F			
	0 Degrees	60 Degrees	120 Degrees	
00	Opposite Drive End Desting Chaft	Fit Deet Dee ein		
89.	Opposite Drive End Bearing Shaft	•		
	0 Degrees	60 Degrees	120 Degrees	
90.	Shaft Air Seal Fits Post Repair			
50.	Drive End Air Seal	Opposite Drive End Air Seal		
91.	Shaft Repair Sign-off			
Mecha	nical Fits- Bearing Housings -	Post Repair		
92.	Drive End - Endbell Bearing Fit Po	ost Repair		
	0 Degrees	60 Degrees	120 Degrees	
93.	Opposite Drive End - Endbell Bea	ring Fit Post Repair		
	0 Degrees	60 Degrees	120 Degrees	
94.	Bearing Cap Condition Post Repa			
	Drive End Bearing Cap	Opposite Drive End Bearing Cap		
95.	End Bell Air Seal Fits Post Repair			
55.	Drive End Air Seal	Opposite Drive End Air Seal		
96.	DE Sleeve Bearing Inside ID Post	Repair		
	Measure 1	Measure 2	Measure 3	

97.	DE Sleeve Bearing Outside ID	Post Repair		
	Measure 1	Measure 2	Measure 3	
98.	DE Sleeve Bearing Inside OD F	Post Repair		
	Measure 1	Measure 2	Measure 3	
		including 2	modelate e	
90	DE Sleeve Bearing Outside OD	Post Repair		
55.	Measure 1	Measure 2	Measure 3	
	Measure	Measure 2	Measure 5	
400				
	End Bell Repair Sign-off			
101.	ODE Sleeve Bearing Inside ID			
	Measure 1	Measure 2	Measure 3	
102.	ODE Sleeve Bearing Outside II			
	Measure 1	Measure 2	Measure 3	
103.	ODE Sleeve Bearing Inside OD	Post Repair		
	Measure 1	Measure 2	Measure 3	
104.	ODE Sleeve Bearing Outside C	D Post Repair		
	Measure 1	Measure 2	Measure 3	
Assem	bly			
	Photograph All Major Compone	ents prior to assembly		
106.	Final Insulation Resistance Tes	t		
107.	Assembled Shaft Endplay			
	Assembled Shaft Runout			
109.	Test Run Voltage			
	Volts	Volts	Volts	
110.	Test Run Amperage			
-	Amps	Amps	Amps	
	, inpo	7.1100	, inpo	
111	Drive End Vibration Readings -	Inches Per Second		
	Horizontal	Vertical	Axial	
	Honzontal	venteal		
112.	Opposite Drive End Vibration R	eadings - Inches Per Second		
112.	Horizontal	Vertical	Axial	
	Holizofilai	venical	Axiai	
440	Ambient Temperature - Fri			
	Ambient Temperature - Fahren			
114.	Drive End Bearing Temps - Fal			
	5 Minutes	10 Minutes	15 Minutes	
115.	Drive End Bearing Temps - Fat			
	20 Minutes	25 Minutes	30 Minutes	

116.	Drive End Bearing Temps - Fahrenheit 35-45 Minutes			
	35 Minutes	40 Minutes	45 Minutes	
117.	Drive End Bearing Temps - Fahrenheit 50-60 Minutes			
	50 Minutes	55 Minutes	60 Minutes	
118.	Opposite Drive End Bearing Temps - Fahrenheit			
	5 Minutes	10 Minutes	15 Minutes	
119.	19. Opposite Drive End Bearing Temps - Fahrenheit 20-30 Minutes			
	20 Minutes	25 Minutes	30 Minutes	
120.	Opposite Drive End Bearing Temps - Fahrenheit 35-45 Minutes			
	35 Minutes	40 Minutes	45 Minutes	
121.	. Opposite Drive End Bearing Temps - Fahrenheit 50-60 Minutes			
	50 Minutes	55 Minutes	60 Minutes	
122.	Stator Temperatures- Fahrenheit			
	5 Minutes	10 Minutes	15 Minutes	
123.	Stator Temperatures- Fahrenheit			
	20 Minutes	25 Minutes	30 Minutes	
404				
124.	Stator Temperatures- Fahrenheit		45 Minutes	
	35 Minutes	40 Minutes	45 Minutes	
125	Stator Temperatures- Fahrenheit 50-60 Minutes			
120.	50 Minutes	55 Minutes	60 Minutes	
126	Final Test Run Sign-off			
	Document Final Condition with Pictures after paint			
	Final Pics and QC Review			
120.				