

# EVERY DAY SINCE 1946

**Motor Shop Repairs** 

## Job Number 99644

Prepared for Fiber Glass Systems (10262)

2700 W. 65th St. Little Rock AR 72209

### Table of Contents

AC Recondition As Found - Shop



Hi-Speed Industrial Service 7030 Ryburn Dr Millington, Tn 38053 901-873-5300

> FolderID: 99644 FormID: 13310239

#### **AC Recondition As Found**

Fiber Glass Systems (10262) 2700 W. 65th St.

Little Rock, AR 72209

#### AC Recondition - Rev. 2

Location:	Shop
Serial Number:	8001

**Description:**75HP Westinghouse 1200RPM 405T

Hi-Speed Job Number:	99644
Manufacturer:	TECO Westinghouse
Product Number:	79C66779
Serial Number:	8001
HP/kW:	75 (HP)
RPM:	1175 (RPM)
Frame:	405T
Voltage:	460
Current:	86
Phase:	Three
Hz:	60 (Hz)
Service Factor:	1.07
Enclosure:	TEFC
J-box Included:	Complete
Coupling/Sheave:	None
Date Received:	04/12/2022
Repair Stage:	Final

#### Priorities Found: 🔵 15 - High

**Overall Condition** 

1. Report Date

2. Nameplate Picture





































3. Describe the Overall Condition of the Equipment as Received

ODE bearing failed due to lack of lubrication causing bearing cage to fail leading to rotor dragging the iron and both end bell bearing fits to to be worn and over sized also causing the out put shaft hole in the ODE end bell to wear to and extent that it cracked. The fan blades are all broke off due to contaminants in the fan cover. The out put shaft on the ODE is bent 15 thousands possibly from side load.

al/Electrical t Turn Freely? Ing was demolished t Have Visible Damage? damage but ODE out put shall d machined shaft to repair. d Shaft Runout busands on ODE out put d Shaft End Play ariation <10% dition th hperature Detector Rating an emperature Detector Rating an indition tion	nd Function Rating	(No) No (No) No Inches (NA) Not Applicable 8 Inches 9 Quantity Passed
ng was demolished t Have Visible Damage? damage but ODE out put shad d machined shaft to repair. d Shaft Runout busands on ODE out put d Shaft End Play ariation <10% dition th hperature Detector Rating an emperature Detector Rating and hdition	nd Function Rating and Function	(No) No Inches (NA) Not Applicable 8 Inches Quantity Passed
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emperature Detector Rating	Rating and Function	
ndition	and Function	
ndition		Quantity Passed
	Rating	Quantity Passed
tion		good
		(F) Fail
All fan blades are broke due to contamination in the fan cover		
antity, Ratings		
	Volts/Watts	Pass/Fail
Missing Components		fan is broken and the J-box cover is missing
Inspection		
Resistance/Megger		
esistance		
	1-3	2-3
urge Test		(NA) Not Applicable
iron not able to save winding	gs. Requires rewind	
dition		
pection		
Bearing Number-		6314
		1
• •		(Ball) Ball Bearing
		(Grease) Grease Lubricated
-		NA
		snap ring and spacer
	ring	
Bearing Condition		failed
	Inspection Resistance/Megger esistance urge Test <i>iron not able to save winding</i> adition Dection Bearing Number- Bearing Qty. Bearing Type Lubrication Type <i>darkened and has hardened</i> Bearing Insulation or Grour Wavy Washer/Snap-Ring Cos <i>between bearing and snap</i> Bearing Condition	Inspection Resistance/Megger esistance 1-3 urge Test <i>iron not able to save windings. Requires rewind</i> adition bection Bearing Number- Bearing Qty. Bearing Qty. Bearing Type Lubrication Type darkened and has hardened Bearing Insulation or Grounding Device? Wavy Washer/Snap-Ring Other Retention Device? as between bearing and snap ring

	28.	Opposite Drive End Bearing Number-		6312
	29.	Opposite Drive End Bearing Qty.		1
	30.	Opposite Drive End Bearing Type		(Ball) Ball Bearing
	31.			(Grease) Grease Lubricated
	-	Failed to properly lubricate		
	32.	Opposite Drive End Bearing Insulation	n or Grounding Device?	NA
	33.	Opposite Drive End Wavy Washer/Sn	ap-Ring Other Retention Device?	NA
	34.			failed
		Race cage failed and flow apart		
	35.	Drive End Seal		NA
	36.	Opposite Drive End Seal		NA
R		Inspection		
		Rotor Type/Material		(Squirrel Aluminum) Squirrel Cage Aluminum Die Cast
	38	Growler Test		(Pass) Pass
	39.	Number of Rotor Bars		(* 200) * 200
		Rotor Condition		0
	41.		elow	_
		Bearings, rewind, machine work on both end bell bearing fits, and weld the output shaft on the ODE		
	42.			
N		anical Fits- Rotor		
		Shaft Runout		
	44.			
		Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing
		Drive Lind Bearing Fit	Kotor Body	Opposite Drive Life Dearing
	45.	Coupling Fit Closest to Bearing Housi	ng	
		0 Degrees	90 Degrees	120 Degrees
	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
	48.			
	49.	Opposite Drive End Bearing Shaft Fit		
		0 Degrees	60 Degrees	120 Degrees
	50			
		Opposite Drive End Bearing Shaft Fit	Condition	
	51.			
		Drive End Air Seal	Opposite Drive End Air Seal	
R	loch	anical Fits- Bearing Housings		
		Drive End - Endbell Bearing Fit		
-	52.	-	60 Degrees	120 Degrees
		0 Degrees	60 Degrees	120 Degrees
	•	Fail over sized		
	53.	Drive End - Endbell Bearing Fit Condi	tion	(F) Fail

<b>5</b> 4	Opposite Drive End - Endbell Bearing	Fit	
• • • •	0 Degrees	60 Degrees	120 Degrees
	0 Degrees	00 Degrees	120 Degrees
	Fail over sized Machined and sleeved bearing housing	and output bore.	
-			
55.	Opposite Drive End - Endbell Bearing	Fit Condition	(F) Fail
56.	Bearing Cap Condition		
	Drive End Bearing Cap	Opposite Drive End Bearing Cap	
	0 1		
-	Pass		
a sadati			
100			
57.	End Bell Air Seal Fits		
	Drive End Air Seal	Opposite Drive End Air Seal	
58.	List Machine Work Needed Below		
	Both end bells and ODE output shaft w	eld and then machine down	
59.	Technician		
Dynai	mic Balance Report		
60.	Rotor Weight and Balance Grade		
	Rotor Weight	Balance Grade	
61.	Initial Balance Readings		
	Drive End	Opposite Drive End	
62.	Final Balance Readings		
	Drive End	Opposite Drive End	
63	Technician		
Rewin			
	Core Test Results - Watts loss per Po	und	
<del>.</del> .	Pre-Burnout	Post Burnout	
		r ost Burnout	
65.	Core Hot Spot Test		
	Pre-Burnout	Post-Burnout	

66.	Post Rewind Electrical Test- Insulation Resistance			
67.	Post Rewind Polarization Index			
68.	8. Post Rewind Winding Resistance			
	1-2	1-3	2-3	
	Post Rewind Surge Test			
	Post Rewind Hi-Pot			
	71. Technician			
	Cause of Failure			
72.	Failure locations			
73.	Root cause of failure			
Mech	anical Fits- Rotor - Post Repair			
	Shaft Runout Post Repair			
75.	Rotor Runout Post Repair			
	Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing	
76.	Coupling Fit Closest to Bearing Housi	ng Post Repair		
	0 Degrees	90 Degrees	120 Degrees	
77. Coupling Fit Closest to the end of the Shaft Post Repair				
	0 Degrees	60 Degrees	120 Degrees	
78.	78. Drive End Bearing Shaft Fit Post Repair			
	0 Degrees	60 Degrees	120 Degrees	
79.	Opposite Drive End Bearing Shaft Fit	Post Repair		
	0 Degrees	60 Degrees	120 Degrees	
80.	80. Shaft Air Seal Fits Post Repair			
001	Drive End Air Seal	Opposite Drive End Air Seal		
		opposite Drive End Air Ocar		
81.	Shaft Repair Sign-off			
Mech	anical Fits- Bearing Housings - P	ost Repair		
82.	Drive End - Endbell Bearing Fit Post F	Repair		
	0 Degrees	60 Degrees	120 Degrees	
02	Opposite Drive End - Endbell Bearing	Eit Doot Poppir		
03.				
	0 Degrees	60 Degrees	120 Degrees	
84.	Bearing Cap Condition Post Repair			
	Drive End Bearing Cap	Opposite Drive End Bearing Cap		
85.	End Bell Air Seal Fits Post Repair			
	Drive End Air Seal	Opposite Drive End Air Seal		
86.	End Bell Repair Sign-off			
Asser	sembly			

87. Photograph All Major Components prior to assembly

















PHENIX



#### (Complete) Complete











88.	Final Insulation Resistance Test		
89.	Assembled Shaft Endplay		
90.	Assembled Shaft Runout		
91.	Test Run Voltage		
	Volts	Volts	Volts
92.	Test Run Amperage		
	Amps	Amps	Amps

93. Drive End Vibration Readings - Inches Per Second				
00.	Horizontal	Vertical	Axial	
	honzontai	Vortiour	/ 0101	
94.	Opposite Drive End Vibration Reading	gs - Inches Per Second		
	Horizontal	Vertical	Axial	
	Ambient Temperature - Fahrenheit			
96.	Drive End Bearing Temps - Fahrenhe			
	5 Minutes	10 Minutes	15 Minutes	
97. Drive End Bearing Temps - Fahrenheit 20-30 Minutes				
57.	20 Minutes	25 Minutes	30 Minutes	
	20 Minutes	25 Windles	30 Minutes	
98.	Drive End Bearing Temps - Fahrenhe	it 35-45 Minutes		
	35 Minutes	40 Minutes	45 Minutes	
99.	Drive End Bearing Temps - Fahrenhe	it 50-60 Minutes		
	50 Minutes	55 Minutes	60 Minutes	
100	Opposite Drive End Rearing Temps	Fabrashait		
100.	Opposite Drive End Bearing Temps -		15 Minuton	
	5 Minutes	10 Minutes	15 Minutes	
101.	Opposite Drive End Bearing Temps -	Fahrenheit 20-30 Minutes		
	20 Minutes	25 Minutes	30 Minutes	
102.	Opposite Drive End Bearing Temps -	Fahrenheit 35-45 Minutes		
	35 Minutes	40 Minutes	45 Minutes	
102	Opposite Drive End Bearing Temps -	Echrophoit 50 60 Minutos		
103.	50 Minutes	55 Minutes	60 Minutes	
	50 minutes	55 Windles	00 Windles	
104.	. Stator Temperatures- Fahrenheit			
	5 Minutes	10 Minutes	15 Minutes	
105.	Stator Temperatures- Fahrenheit 20-3			
	20 Minutes	25 Minutes	30 Minutes	
106	5. Stator Temperatures- Fahrenheit 35-45 Minutes			
100.	35 Minutes	40 Minutes	45 Minutes	
		TO MILLICO	To Williaco	
107.	Stator Temperatures- Fahrenheit 50-6	60 Minutes		
	50 Minutes	55 Minutes	60 Minutes	
	Final Test Run Sign-off			
	Document Final Condition with Picture	es after paint		
110.	Final Pics and QC Review			











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- 1. <u>APPLICABILITY.</u> The sale of any and all goods and/or services by Mock, Inc. d/b/a Hi-Speed Industrial Service ("Hi-Speed") shall be specifically conditioned upon and subject to the following terms and conditions which are incorporated by reference into any contracts and purchase orders with Hi-Speed, and which shall form and become a part of any agreement related thereto. Buyer's acceptance of any offer or quotation made by Hi-Speed for sale of any goods or services is expressly made subject to the terms and conditions set forth herein and to be so effective, Buyer need not sign or approve these Terms and Conditions to be bound hereunder provided a copy of same is provided to Buyer through any means. None of the terms and conditions contained herein may be added to, expanded, changed, modified, superseded or otherwise altered except as revised in writing and duly executed by Hi-Speed, and all orders received by Hi-Speed shall be governed only by the terms and conditions contained herein, notwithstanding any terms, conditions or provisions of any purchase order, release order, authorization or any other form issued by the Buyer. Hi-Speed hereby objects to any additional, modified, changed, deleted, altered or other terms and conditions not contained herein and notifies Buyer that any such terms or provisions are expressly rejected by Hi-Speed.
- 2. PRICE. All quoted prices shall remain firm and binding for a period of thirty (30) days from the date of quotation or for the period specifically stated in the quotation. The price for any and all goods and/or services ordered or approved by Buyer after thirty (30) days from the date of any quotation are subject to any increase in price that may occur after the expiration of thirty (30) days from the issuance of the quotation and the date the Buyer releases any shipment.
- 3. <u>SCOPE OF GOODS AND/OR SERVICES.</u> The goods and/or services provided by Hi-Speed pursuant to any quotation shall be limited exclusively to those goods and/or services expressly identified therein. Hi-Speed does not assume any responsibility and/or liability for the failure to provide any other goods and/or services not identified in any quotation. Modifications, additions or deletions to or from the scope referenced in any quotation shall only be effective if evidenced in writing and signed by Hi-Speed. The sale of any of all goods and/or services affected by such modification, addition or deletion shall be subject to these same Standard Terms and Conditions whether or not referenced therein.
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- 5. DELIVERY OF GOODS AND/OR SERVICES. Unless otherwise identified in the quotation, all shipments are F.O.B. Hi-Speed's warehouse and the title to and all risk of loss with respect to any goods shipped shall pass to Buyer when such goods are delivered to the carrier at Hi-Speed's warehouse. Hi-Speed will use its best efforts to affect delivery by the date or dates specified in the quotation. However, Hi-Speed shall not be liable for delay in or failure to make shipment, or to perform services, by any identified date for any reason whatsoever, including but not limited to, causes beyond its reasonable control, such as strikes, fires, floods, epidemics, quarantines, restrictions, severe weather, embargos, acts of God, or public enemy, war, riot, delays in transportation or the inability to obtain necessary labor, materials or manufacturing facilities.
- 6. DELIVERY SITE AND TIME FOR PERFORMANCE. Hi-Speed and Buver agree that time is of the essence for the purchase order and that Buyer shall fully cooperate with Hi-Speed in order to allow Hi-Speed full access to prosecute its work diligently and in an orderly manner. Buyer shall assist Hi-Speed in every way possible to avoid delaying, disrupting or interfering with the progress of Hi-Speed's work at the project site. In the event Hi-Speed's work is delayed, hindered, suspended, disrupted, re-sequenced or interfered with or rendered less efficient or more costly or adversely affected in any way as a result of acts or omissions of Buyer or other contractors or employees of Buyer or by any other reason beyond Hi-Speed's control and without the fault of Hi-Speed, then, in such event, Buyer shall be liable to Hi-Speed for any damages, additional costs, expenses, labor, materials, man hours, acceleration costs, overtime, additional jobsite overhead, extended home office overhead, and any and all other direct and indirect expenses of whatsoever nature or kind, caused in whole or in part, as a result of any of the above-referenced occurrences. Hi-Speed's project records will be the basis for computing the additional costs and damages of Hi-Speed's labor, materials, expenses and overhead related to such changes. BUYER WARRANTS THAT THE SITE FOR DELIVERY OR INSTALLATION OF ANY GOODS AND/OR FOR THE PERFORMANCE OF ANY SERVICES SHALL BE READY AND ADEQUATE FOR HI-SPEED'S DELIVERY OF GOODS AND/OR PERFORMANCE OF SERVICES AND THAT HI-SPEED SHALL HAVE FULL ACCESS THERETO, FREE OF ALL OBSTRUCTIONS. BUYER SHALL ASSUME ALL EXTRA COSTS ASSOCIATED WITH HI-SPEED'S INABILITY TO INSTALL ANY GOODS OR PERFORM ANY SERVICES AS A RESULT OF BUYER'S FAILURE TO COMPLY WITH THIS PROVISION. HI-SPEED MAY NOT INSPECT THE SITE PRIOR TO DELIVERY AND/OR INSTALLATION OF GOODS AND/OR PERFORMANCE OF SERVICES AND MAKES NO WARRANTY AS TO THE SUFFICIENCY OF THE SITE FOR THE DELIVERY AND/OR INSTALLATION OF GOODS AND/OR THE PERFORMANCE OF SERVICES AT SUCH SITE.
- 7. INSPECTION/ACCEPTANCE. All goods and services ordered pursuant to any quotation shall be subject to inspection by Buyer after delivery or performance to determine conformity with the quotation and/or purchase order and Hi-Speed's advertised or published specifications. Buyer shall have a period of thirty (30) days from shipment of goods at the delivery destination specified in the quotation within which to inspect the goods for conformity with the quotation, order and/or Hi-Speed's advertised and published specifications and to provide Hi-Speed with written notice of any discrepancy or rejection. Buyer shall have a period of thirty (30) days following completion of any services within which to inspect the services for conformity with the quotation, purchase order and/or Hi-Speed's advertised and published specifications and to provide Hi-Speed with written notice of any discrepancy or rejection. If the goods delivered or services performed do not so conform, upon delivery of notice to Hi-Speed of any discrepancy, nonconformance or rejection, Hi-Speed shall have the right to reject such goods or services. After the cure period, goods that have been delivered and rejected, in whole or in part, shall be returned to Hi-Speed shall, at its sole cost, re-perform the non-conforming services. Inspection or failure to inspect on any occasion shall not affect Buyer's rights under the warranty provisions herein.
- 8. WARRANTIES. 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

**TermsAndConditions** 

replace any defective or non-conforming goods in accordance with the applicable manufacturer's warranty. Warranty for any defective or incorrect parts is limited to the repair or replacement of those parts. Hi-Speed warrants that all services will conform in all material respects to the description of services identified in the quotation and will be performed in a good and workmanlike manner in accordance with industry practices and standards. Should the services be reasonably rejected or not conform with the foregoing warranties, Hi-Speed shall, at its sole cost, re-perform the defective or nonconforming services. Notwithstanding the foregoing, these warranties do not extend to goods or services to the extent that such goods have been subject to misuse, neglect or abuse not caused by Hi-Speed or have been used in violation of the approved written instructions furnished to Buyer. THE FOREGOING REPRESENTS THE SOLE AND EXCLUSIVE WARRANTY GIVEN BY HI-SPEED WITH RESPECT TO ALL GOODS SOLD AND IS IN LIEU OF ALL OTHER WARRANTIES EITHER EXPRESS OR IMPLIED. HI-SPEED EXPRESSLY DISCLAIMS ALL OTHER WARRANTIES INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICLAR USE OR PURPOSE. BUYER WAIVES ANY CLAIM THAT THESE EXCLUSIONS OR LIMITATIONS DEPRIVE IT OF AN ADEQUATE REMEDY AT EQUITY OR LAW OR CAUSE THIS AGREEMENT TO FAIL IN ITS ESSENTIAL PURPOSE. BUYER SHALL BE ENTITLED TO NO OTHER REMEDY OTHER THAN AS SET FORTH HEREIN, REGARDLESS OF THE CLAIM OR CAUSE OF ACTION, WHETHER BASED IN CONTRACT, TORT, NEGLIGENCE, GOODS LIABILITY, STRICT LIABILITY OR OTHERWISE.

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- 10. <u>SEVERABILITY</u>. The partial or complete invalidity of any provision of these Standard Terms and Conditions shall not affect the enforceability of the remainder of these Standard Terms and Conditions. If any provision is found to be invalid or unenforceable, that portion shall be modified to make it enforceable or shall be stricken and the remainder of these Standard Terms and Conditions shall enforced.
- 11. <u>GOVERNING LAW AND JURISDICTION.</u> Any controversy arising out of any quotation, the purchase order, the goods sold or delivered, repair or replacement thereof, or any services provided pursuant to any quotation or any purchase order, or these Standard Terms and Conditions shall be governed by the laws of the state of Tennessee without regard to any choice of law provisions and any cause of action related in any manner thereto shall be brought only in the state or federal courts of Shelby County, Tennessee.
- 12. <u>ABANDONED EQUIPMENT.</u> 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.
- 14. <u>NONWAIVER</u>. No course of dealing or failure of either party to strictly enforce any term, right, or condition of these Standard Terms and Conditions will be construed as a waiver of such term, right or condition. Any waiver by Hi-Speed will only be in writing and will waive no succeeding breach of a term, right or condition.
- 15. <u>ASSIGNMENT.</u> The rights and obligations of the parties shall neither be assigned nor delegated without the prior written consent of the other party. However, any party may assign or delegate its respective rights and obligations, in whole or in part, (i) to any subsidiary, (ii) pursuant to other financing, merger or reorganization or (iii) pursuant to any sale or transfer of substantially all of the assets of the assigning party. These Standard Terms and Conditions shall bind the heirs, successors and assigns of the parties hereto.
- 16. <u>NO INDIVIDUAL LIABILITY</u>. Notwithstanding any other agreement to the contrary, the Buyer agrees that in no event will the Buyer hold and HI-Speed owner, director, officer or employee personally liable for unintentional tortious conduct or conduct that constitutes the breach of any contract between HI-Speed and the Buyer, even if the HI-Speed owner, director, officer or employee is or could be construed to be a party to such contract.