

Motor Shop Repairs

Job Number 99723

Prepared for Reynolds Metals company

1333 highway 270 Malvern AR 72104

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AC Recondition As Found - Shop

AC Recondition - Rev. 2: 7904

1.0



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

> FolderID: 99723 FormID: 13428363

AC Recondition As Found

Reynolds Metals company

1333 highway 270 Malvern, AR 72104

AC Recondition - Rev. 2

Location: Shop Serial Number: 7904

Description:15HP Westinghouse 3600RPM 284T

Hi-Speed Job Number:	99723
Manufacturer:	TECO Westinghouse
Product Number:	79D54788
Serial Number:	7904
HP/kW:	15 (HP)
RPM:	3540 (RPM)
Frame:	284T
Voltage:	460
Current:	30
Phase:	Three
Hz:	60 (Hz)
Service Factor:	1.0
Enclosure:	TEFC
J-box Included:	Complete
Coupling/Sheave:	None
Date Received:	04/27/2022
Repair Stage:	Teardown Inspection
Winding Type :	Random Wound
Bearing Type:	Rolling Element

Priorities Found: 5 - High



2 - Good

Overall Condition

1. Report Date

2. Nameplate Picture



























3. Describe the Overall Condition of the Equipment as Received Dirtv

Initial Mechanical/Electrical

4.	Does Shaft Turn Freely?	(No) No
5.	Does Shaft Have Visible Damage?	(No) No

- 6. Assembled Shaft Runout
- 7. Assembled Shaft End Play
- 8. Air Gap Variation <10%
- 9. Lead Condition
- 10. Lead Length
- 11. Stator Temperature Detector Rating and Function

Quantit	y Rating Quantity	Passec

12. Bearing Temperature Detector Rating and Function

Quantity Rating Quantity Passed

13. Frame Condition ok

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-	Fan Condition			(F) Fail
	Melted			
15.	Heater Quantity, Ratings			
	Quantity	Volts/Watts	Pass/Fail	
16.	Broken or Missing Components			
Initia	l Electrical Inspection			
17.	Insulation Resistance/Megger			
18.	Winding Resistance			
	1-2	1-3	2-3	
	0	0	0	
19.	Perform Surge Test			(F) Fail
20.	Stator Condition			rewind
Mech	anical Inspection			
	Drive End Bearing Number-			6311
22.	3,			1
23.	3 71 -		•	I) Ball Bearing
	Drive End Lubrication Type		(Grease) Grea	
24.	• • • • • • • • • • • • • • • • • • • •		(0.0000) 0.00	se Lubricated
25.	Drive End Bearing Insulation or Gro	-	(0.0000) 0.00	se Lubricated
25. 26.	Drive End Bearing Insulation or Gro Drive End Wavy Washer/Snap-Ring	-	(Crouse) Cross	
25. 26. 27.	Drive End Bearing Insulation or Gro Drive End Wavy Washer/Snap-Ring Drive End Bearing Condition	Other Retention Device?	(Groupe) Grou	bad
25. 26. 27. 28.	Drive End Bearing Insulation or Gro Drive End Wavy Washer/Snap-Ring Drive End Bearing Condition Opposite Drive End Bearing Number	Other Retention Device?	(Crouse) Grea	bad 6209
25. 26. 27. 28. 29.	Drive End Bearing Insulation or Gro Drive End Wavy Washer/Snap-Ring Drive End Bearing Condition Opposite Drive End Bearing Number Opposite Drive End Bearing Qty.	Other Retention Device?		bad 6209 1
25. 26. 27. 28. 29. 30.	Drive End Bearing Insulation or Gro Drive End Wavy Washer/Snap-Ring Drive End Bearing Condition Opposite Drive End Bearing Number Opposite Drive End Bearing Qty. Opposite Drive End Bearing Type	Other Retention Device?	(Bal	bad 6209 1 I) Ball Bearing
25. 26. 27. 28. 29. 30. 31.	Drive End Bearing Insulation or Gro Drive End Wavy Washer/Snap-Ring Drive End Bearing Condition Opposite Drive End Bearing Number Opposite Drive End Bearing Qty. Opposite Drive End Bearing Type Opposite Drive End Lubrication Type	Other Retention Device?	(Bal	bad 6209 1
25. 26. 27. 28. 29. 30. 31.	Drive End Bearing Insulation or Gro Drive End Wavy Washer/Snap-Ring Drive End Bearing Condition Opposite Drive End Bearing Numbe Opposite Drive End Bearing Qty. Opposite Drive End Bearing Type Opposite Drive End Lubrication Typ Opposite Drive End Bearing Insulation	Other Retention Device? er- e on or Grounding Device?	(Bali (Grease) Grea	bad 6209 1 I) Ball Bearing ase Lubricated
25. 26. 27. 28. 29. 30. 31. 32.	Drive End Bearing Insulation or Gro Drive End Wavy Washer/Snap-Ring Drive End Bearing Condition Opposite Drive End Bearing Number Opposite Drive End Bearing Qty. Opposite Drive End Bearing Type Opposite Drive End Lubrication Type Opposite Drive End Bearing Insulation Opposite Drive End Wavy Washer/S	Other Retention Device? or- e on or Grounding Device? Snap-Ring Other Retention Device?	(Bali (Grease) Grea	bad 6209 1 I) Ball Bearing ise Lubricated wavy washer
25. 26. 27. 28. 29. 30. 31. 32. 33.	Drive End Bearing Insulation or Gro Drive End Wavy Washer/Snap-Ring Drive End Bearing Condition Opposite Drive End Bearing Number Opposite Drive End Bearing Qty. Opposite Drive End Bearing Type Opposite Drive End Lubrication Type Opposite Drive End Bearing Insulation Opposite Drive End Wavy Washer/S Opposite Drive End Bearing Condition	Other Retention Device? or- e on or Grounding Device? Snap-Ring Other Retention Device?	(Bali (Grease) Grea	bad 6209 1 I) Ball Bearing ase Lubricated wavy washer bad
25. 26. 27. 28. 29. 30. 31. 32. 33. 34.	Drive End Bearing Insulation or Gro Drive End Wavy Washer/Snap-Ring Drive End Bearing Condition Opposite Drive End Bearing Number Opposite Drive End Bearing Qty. Opposite Drive End Bearing Type Opposite Drive End Lubrication Type Opposite Drive End Bearing Insulation Opposite Drive End Wavy Washer/Sopposite Drive End Bearing Condition Drive End Seal	Other Retention Device? or- e on or Grounding Device? Snap-Ring Other Retention Device?	(Bali (Grease) Grea	bad 6209 1 I) Ball Bearing ise Lubricated wavy washer bad none
25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35.	Drive End Bearing Insulation or Gro Drive End Wavy Washer/Snap-Ring Drive End Bearing Condition Opposite Drive End Bearing Number Opposite Drive End Bearing Qty. Opposite Drive End Bearing Type Opposite Drive End Lubrication Type Opposite Drive End Bearing Insulation Opposite Drive End Wavy Washer/S Opposite Drive End Bearing Condition Drive End Seal Opposite Drive End Seal	Other Retention Device? or- e on or Grounding Device? Snap-Ring Other Retention Device?	(Bali (Grease) Grea	bad 6209 1 I) Ball Bearing ase Lubricated wavy washer bad
25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36.	Drive End Bearing Insulation or Gro Drive End Wavy Washer/Snap-Ring Drive End Bearing Condition Opposite Drive End Bearing Number Opposite Drive End Bearing Qty. Opposite Drive End Bearing Type Opposite Drive End Lubrication Type Opposite Drive End Bearing Insulation Opposite Drive End Wavy Washer/Sopposite Drive End Bearing Condition Drive End Seal	Other Retention Device? or- e on or Grounding Device? Snap-Ring Other Retention Device?	(Bali (Grease) Grea	bad 6209 1 I) Ball Bearing se Lubricated wavy washer bad none none
25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36.	Drive End Bearing Insulation or Gro Drive End Wavy Washer/Snap-Ring Drive End Bearing Condition Opposite Drive End Bearing Number Opposite Drive End Bearing Qty. Opposite Drive End Bearing Type Opposite Drive End Lubrication Type Opposite Drive End Bearing Insulation Opposite Drive End Wavy Washer/S Opposite Drive End Bearing Condition Drive End Seal Opposite Drive End Seal Tinspection Rotor Type/Material	Other Retention Device? or- e on or Grounding Device? Snap-Ring Other Retention Device?	(Bali (Grease) Grea	bad 6209 1 I) Ball Bearing se Lubricated wavy washer bad none none
25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. Rotor	Drive End Bearing Insulation or Gro Drive End Wavy Washer/Snap-Ring Drive End Bearing Condition Opposite Drive End Bearing Number Opposite Drive End Bearing Qty. Opposite Drive End Bearing Type Opposite Drive End Lubrication Type Opposite Drive End Bearing Insulation Opposite Drive End Wavy Washer/Source Drive End Bearing Condition Drive End Seal Opposite Drive End Seal Tinspection Rotor Type/Material Growler Test	Other Retention Device? or- e on or Grounding Device? Snap-Ring Other Retention Device?	(Bali (Grease) Grea	bad 6209 1 I) Ball Bearing Ise Lubricated wavy washer bad none none
25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. Rotor 37.	Drive End Bearing Insulation or Gro Drive End Wavy Washer/Snap-Ring Drive End Bearing Condition Opposite Drive End Bearing Number Opposite Drive End Bearing Qty. Opposite Drive End Bearing Type Opposite Drive End Lubrication Type Opposite Drive End Bearing Insulation Opposite Drive End Wavy Washer/S Opposite Drive End Bearing Condition Drive End Seal Opposite Drive End Seal Tinspection Rotor Type/Material Growler Test Number of Rotor Bars	Other Retention Device? or- e on or Grounding Device? Snap-Ring Other Retention Device?	(Bali (Grease) Grea	bad 6209 1 I) Ball Bearing se Lubricated wavy washer bad none none num) Squirrel inum Die Cast (Pass) Pass

Rewind, sleeve ODE bell, repair shaft ODE bearing fit. Fan

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42.	Signature of Technician that Disass	embled Motor	David Maclin
Mech	nanical Fits- Rotor		
43.	Shaft Runout		
44.	Rotor Runout		
	Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing
45.	Coupling Fit Closest to Bearing Hou	ısing	
	0 Degrees	90 Degrees	120 Degrees
46	Coupling Fit Closest to the end of the	ne Shaft	
70.	0 Degrees	60 Degrees	120 Degrees
	0 2 0 9. 0 0 0	00 209.000	0 _ 0g.000
47.	Drive End Bearing Shaft Fit		
	0 Degrees	60 Degrees	120 Degrees
	2.1659	2.1659	2.1659
4 8.	Drive End Bearing Shaft Fit Condition	on	(P) Pass
49.	Opposite Drive End Bearing Shaft F	it	
	0 Degrees	60 Degrees	120 Degrees
	1.76	1.76	1.76
) 50.	11 0	it Condition	(F) Fail
51.	Shaft Air Seal Fits		
	Drive End Air Seal	Opposite Drive End Air Seal	
Mech	nanical Fits- Bearing Housings		
	Drive End - Endbell Bearing Fit		
	0 Degrees	60 Degrees	120 Degrees
	4.7245	4.7246	4.7246
5 3.	Drive End - Endbell Bearing Fit Cor	dition	(P) Pass
54.	Opposite Drive End - Endbell Bearing	ng Fit	
	0 Degrees	60 Degrees	120 Degrees
	3.33	3.33	3.33
55.	• •	ng Fit Condition	(F) Fail
56.	Bearing Cap Condition		
	Drive End Bearing Cap	Opposite Drive End Bearing Cap	
	End Bell Air Seal Fits		

Opposite Drive End Air Seal

Drive End Air Seal

58. List Machine Work Needed Below Sleeve ODE, weld shaft ODE

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59. Technician David Maclin

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Root Cause of Failure

60. Failure locations

Bearings, ODE shaft and end bell, rewind, replace fan.

61. Root cause of failure

Overloaded.

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- 3. SCOPE OF GOODS AND/OR SERVICES. 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 bee 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. <u>DELIVERY OF GOODS AND/OR SERVICES.</u> 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.
- **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.
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- 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

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. **GOVERNING LAW AND JURISDICTION.** 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. 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.
- 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. **ASSIGNMENT.** 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. NO INDIVIDUAL LIABILITY. 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.