

LR Motor Shop Repairs

Job Number 100076

Prepared for Twin Rivers (12049)

3501 Jefferson Parkway Pine Bluff AR 71602

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AC Recondition As Found - Shop

AC Recondition - Rev. 2: PMS125204

1.0



FolderID: 100076

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AC Recondition As Found

Twin Rivers (12049)

3501 Jefferson Parkway Pine Bluff, AR 71602

Location:

AC Recondition - Rev. 2

Serial Number: PMS125204

Description: 50HP GE 1800RPM 326T

Shop

Hi-Speed Job Number:	100076
Manufacturer:	GE
Product Number:	5KS326SS205522
Serial Number:	PMS125204
HP/kW:	50 (HP)
RPM:	1775 (RPM)
Frame:	326T
Voltage:	230 / 460
Current:	121.7/60.7
Phase:	Three
Hz:	60 (Hz)
Service Factor:	1.15
Enclosure:	TEFC
J-box Included:	Complete
Coupling/Sheave:	None
Bearing RTDs:	No
Stator RTDs:	No
Repair Stage:	Teardown Inspection
Heaters:	No
Winding Type :	Random Wound
Bearing Type:	Rolling Element

Priorities Found: **a** 2 - High

6 - Good

Overall Condition

1. Report Date

2. Nameplate Picture





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(Yes) Yes

(Yes) Yes

- 3. Photos of all six sides of the machine.
- Describe the Overall Condition of the Equipment as Received
 Dirty

Initial Mechanical/Electrical

5. Does Shaft Turn Freely?6. Does Shaft Have Visible Damage?



- 7. Assembled Shaft Runout
- 8. Assembled Shaft End Play
- 9. Air Gap Variation <10%

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10.	Lead Condition	(P) Pass
-	Has two leads the need to be reconnected	
11.	Lead Length	8 Inches
12.	Frame Condition	pass
13.	Fan Condition	(P) Pass



14.	Broken or Missing Components		na		
Initial	nitial Electrical Inspection				
15.	Insulation Resistance/Megger				
16.	Winding Resistance				
	1-2	1-3	2-3		
17 .			(P) Pass		
	8. Stator Condition				
	anical Inspection				
19.	Drive End Bearing Number-		6312		
20.	Drive End Bearing Qty.		1		
21.	Drive End Bearing Type		(Ball) Ball Bearing		
22.	2. Drive End Lubrication Type		(Grease) Grease Lubricated		
23.	Drive End Bearing Insulation or Groun	iding Device?	na		
24.	Drive End Wavy Washer/Snap-Ring C	other Retention Device?	na		
25.	5. Drive End Bearing Condition		contamination and mixed grease		
26.	. Opposite Drive End Bearing Number-		6312		
27.	27. Opposite Drive End Bearing Qty.		1		
28.	Opposite Drive End Bearing Type		(Ball) Ball Bearing		
29.	Opposite Drive End Lubrication Type		(Grease) Grease Lubricated		
30.	Opposite Drive End Bearing Insulation	or Grounding Device?	na		
31.	Opposite Drive End Wavy Washer/Sn	ap-Ring Other Retention Device?	wavy washer		
32.	Opposite Drive End Bearing Condition		contamination and mixed grease		
33.	33. Drive End Seal		na		
34.	Opposite Drive End Seal		na		
Rotor	Inspection				
35.	Rotor Type/Material		(Squirrel Aluminum) Squirrel Cage Aluminum Die Cast		
36.	Growler Test		(Pass) Pass		

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	37.	Number of Rotor Bars				
	38.			pass		
			Alow	pass		
	33.	List the Parts needed for the Repair Below 6312x2				
	40.		Cw			
IV	lecha	anical Fits- Rotor				
	41.	Shaft Runout				
	42.	Rotor Runout				
		Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing		
	43.	Coupling Fit Closest to Bearing Housi	ng			
		0 Degrees	90 Degrees	120 Degrees		
			01. 6			
	44.	Coupling Fit Closest to the end of the		400 B		
		0 Degrees	60 Degrees	120 Degrees		
	45.	Drive End Bearing Shaft Fit				
		0 Degrees	60 Degrees	120 Degrees		
	-	2.3625x3				
	46.	Drive End Bearing Shaft Fit Condition		(P) Pass		
	47.	Opposite Drive End Bearing Shaft Fit				
		0 Degrees	60 Degrees	120 Degrees		
	_	0.2000.2				
	40	2.3628x3	Con didion	(D) Door		
	48.	Opposite Drive End Bearing Shaft Fit	Condition	(P) Pass		
	49.		O			
		Drive End Air Seal	Opposite Drive End Air Seal			
IV	lecha	anical Fits- Bearing Housings				
		Drive End - Endbell Bearing Fit				
		0 Degrees	60 Degrees	120 Degrees		
		5.4405				
		5.1195		/ - \		
	51.	. Opposite Drive End - Endbell Bearing Fit		(F) Fail		
	52.					
		0 Degrees	60 Degrees	120 Degrees		
	-	5.1120				
	53.	Opposite Drive End - Endbell Bearing	Fit Condition	(F) Fail		

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54. Bearing Cap Condition

Drive End Bearing Cap

Opposite Drive End Bearing Cap

Pass



55. End Bell Air Seal Fits

Drive End Air Seal

Opposite Drive End Air Seal

56. List Machine Work Needed Below Both end bell bearing fits

57. Technician

Cw

112

Root Cause of Failure

58. Failure locations

Bearings and end bell bearing fits

59. Root cause of failure

Mixed grease and wear



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- 1. APPLICABILITY. 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.
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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.
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- 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 sixty (60) days to cure the alleged discrepancy and/or nonconformance. If Hi-Speed fails to cure in this time period, Buyer 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. Buyer shall notify Hi-Speed and arrange for the return of the goods as required. Should such non-conforming services be rejected 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. <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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- 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.
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- 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.
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- 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.