

LR Motor Shop Repairs

Job Number 12109

Prepared for APPLIED FINISHING SYSTEMS

6 CLEMENTS LANE CONWAY AR 72032

Table of Contents

AC Recondition As Found - MOTOR SHOP LR

AC Recondition - Rev. 2: C0707170168

1.0



FolderID: 12109

FormID: 15673044



AC Recondition As Found APPLIED FINISHING SYSTEMS

6 CLEMENTS LANE CONWAY, AR 72032

Serial Number:

AC Recondition - Rev. 2

Location: MOTOR SHOP LR

C0707170168 Description: 50HP REXROTH 1800RPM 326TYZ

Hi-Speed Job Number:	100763
Manufacturer:	Baldor
Product Number:	12E888X249G1
Spec/ID #:	12E888X249G1
Serial Number:	C0707170168
HP/kW:	50 (HP)
RPM:	1770 (RPM)
Frame:	326TYZ
Voltage:	230 / 460
Current:	116/58
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

Report Date 01/11/2023

Nameplate Picture





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3. Photos of all six sides of the machine.

 Describe the Overall Condition of the Equipment as Received Dirty. Smells like burnt varnish

Initial Mechanical/Electrical

5. Does Shaft Turn Freely?
 (Yes) Yes

6. Does Shaft Have Visible Damage? (No) No

7. Assembled Shaft Runout

8. Assembled Shaft End Play

9. Air Gap Variation <10%



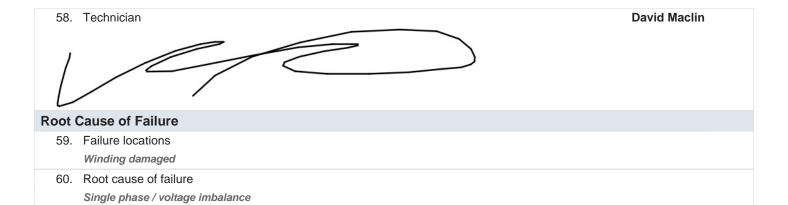


11.	Lead Length	20 Inches			
12.	Frame Condition	good			
13.	Fan Condition	(P) Pass			
14.	Broken or Missing Components	none			
Initial Electrical Inspection					
15.	Insulation Resistance/Megger	Megohms			
16.	Winding Resistance				
	1-2	2-3			
17.	Perform Surge Test	(F) Fail			
18.	Number of Stator Slots				
19.	Stator Condition	rewind			
Mechanical Inspection					
20.	Drive End Bearing Number-	6212 2RS			
21.	Drive End Bearing Qty.	1			
22.	Drive End Bearing Type	(Ball) Ball Bearing			
23.	Drive End Lubrication Type	(Grease) Grease Lubricated			
24.	Drive End Bearing Insulation or Grounding Device?	none			
25.	Drive End Wavy Washer/Snap-Ring Other Retention Device?	outer snap ring			
26.	Drive End Bearing Condition	good			
27.	Opposite Drive End Bearing Number-	6311			
28.	Opposite Drive End Bearing Qty.	1			
29.	Opposite Drive End Bearing Type	(Ball) Ball Bearing			
30.	Opposite Drive End Lubrication Type	(Grease) Grease Lubricated			
31.	. Opposite Drive End Bearing Insulation or Grounding Device?				
32.	Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?	wavy washer			
33.	Opposite Drive End Bearing Condition	good			
34.	l. Drive End Seal none				
35.	Opposite Drive End Seal	none			
Rotor	Inspection				
36.	Rotor Type/Material	(Squirrel Aluminum) Squirrel Cage Aluminum Die Cast			
37.	Growler Test	(Pass) Pass			
38.	Number of Rotor Bars	40			

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	39.	Rotor Condition good					
	40.	List the Parts needed for the Repair Below					
		Rewind, 6311, 6212, weld and machine					
	41.	1. Signature of Technician that Disassembled Motor David Maclin					
Mechanical Fits- Rotor							
	42.	Shaft Runout		0.001 inches			
	43.	Rotor Runout					
		Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing			
	44.	. Coupling Fit Closest to Bearing Housing					
		0 Degrees	90 Degrees	120 Degrees			
	45.	. Coupling Fit Closest to the end of the Shaft					
		0 Degrees	60 Degrees	120 Degrees			
	46.	Drive End Bearing Shaft Fit					
		0 Degrees	60 Degrees	120 Degrees			
		2.362	2.362	2.362			
	47.	Drive End Bearing Shaft Fit Condition		(F) Fail			
	48.	Opposite Drive End Bearing Shaft Fit					
		0 Degrees	60 Degrees	120 Degrees			
		2.1655	2.1655	21655			
	49.	-11	Condition	(P) Pass			
	50.	Shaft Air Seal Fits					
		Drive End Air Seal	Opposite Drive End Air Seal				
Mechanical Fits- Bearing Housings							
	51.	Drive End - Endbell Bearing Fit					
		0 Degrees	60 Degrees	120 Degrees			
		3.937	3.937	3.937			
	52.	Drive End - Endbell Bearing Fit Condi		(P) Pass			
	53.	Opposite Drive End - Endbell Bearing		100 5			
		0 Degrees	60 Degrees	120 Degrees			
	<i></i>	4.7245	4.7245	4.7245			
	54.	. Opposite Drive End - Endbell Bearing Fit Condition (P) Pass . Bearing Cap Condition		(P) Pass			
	55.	Drive End Bearing Cap	Opposite Drive End Bearing Cap				
			Opposite Drive Line bearing Cap				
	56.	End Bell Air Seal Fits					
		Drive End Air Seal	Opposite Drive End Air Seal				
	57.	7. List Machine Work Needed Below					
		Weld and machine DE bearing fit on shaft					

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- 4. <u>BILLING AND PAYMENT TERMS.</u> Hi-Speed shall invoice Buyer for all goods and/or services as same are rendered at the address listed on the quotation. Payments for all goods and/or services shall be due thirty (30) days from the date of the current invoice or as otherwise set forth in the quotation. Late payments are subject to a late fee of 5% of the total invoice amount. Recurring late payments may lead to a deposit requirement on future services or sale of goods. Buyer shall be liable to Hi-Speed for any and all fees and expenses incurred by Hi-Speed to collect any invoices or to enforce these Standard Terms and Conditions, including but not limited to, attorney's fees.
- 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.
- 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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- 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.
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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.