

EVERY DAY SINCE 1946

LR Motor Shop Repairs

Job Number 103285

Prepared for Tolm Group Inc (12758)

210 N Moose St Morrilton AR 72110

Table of Contents

Field Service Ticket

AC Inspection as Found - LR MOTOR SHOP

AC Inspection - Rev. 2: Z1074190985

1.0



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

Field Service Ticket

FolderID: 103285 FormID: 21167264

Tolm Group Inc (12758) 210 N Moose St Morrilton, AR 72110

Priorities Found:

Job I	nformation		
1.	Hi-Speed Job Number		103285
2.	Asset Type		Aereator
3.	Make		
		A. The second	























4. Model

- 5. Serial Number
- 6. Customer Asset ID/Asset Name

Service Call Details

7. Service Objectives

Remove motor from blower and bring back to shop for inspection and repair.

8. Services Performed

Same as objective. Two leads from terminal box are Purple to TB1, TB2 to 2HE1:2HE2, White wire to 1HE1:1HE2. 1,7,6,12 Brown lead 1 2,4,8,10 Orange lead 2 3,5,9,11 Yellow lead 3

9. Service Technician Recommendations

Approval Signatures

10. Service Technician Signature

11. Customer Signature

S. Roth

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Trevor Hall

Joel Thetford



FolderID: 103285 FormID: 21178436

AC Inspection as Found Tolm Group Inc (12758)

210 N Moose St

Morrilton, AR 72110

AC Inspection - Rev. 2

Location:	LR MOTOR SHOP	
Serial Number:	Z1074190985	
Description:110	KW WEG EVAL	

Hi-Speed Job Number:	103285
Manufacturer:	WEG
Product Number:	115036LY5C445AS-W22
Serial Number:	Z1074190985
HP/kW:	110 (kW)
RPM:	3570 (RPM)
Frame:	445/5TS
Voltage:	460
Current:	163A
Phase:	Three
Hz:	60 (Hz)
Service Factor:	1.15
Enclosure:	TEFC
# of Leads:	12
J-box Included:	None
Coupling/Sheave:	Coupling
Date Received:	07/31/2024
Bearing RTDs:	No
Stator RTDs:	No
Repair Stage:	Final
Rewind:	No
Shaft Machined Fit Repairs Required:	No
Bearing Housing Machined Fit Repairs Required:	No
Heaters:	Yes
Winding Type :	Random Wound
Bearing Type:	Rolling Element

Priorities Found: **10 - Good**

Overall Condition

1. Report Date

08/05/2024

2. Nameplate Picture



3. Photos of all six sides of the machine.











































10.	Assembled Shaft Runout		Inches	
11.	Assembled Shaft End Play		inches	
12.	Air Gap Variation <10%			
13.	Lead Condition		(P) Pass	
14.	Lead Length		14 Inches	
15.	Does it have Lugs?, If so what is the S	tud Size?		
	Yes			
16.	Lead Numbers		T1-T12	
17.	Frame Condition		pass	
18.	Fan Condition		(P) Pass	
19.	Broken or Missing Components		J-box	
20.	Heater Quantity, Ratings			
	Quantity	Volts/Watts	Pass/Fail	
	2			

Initial Electrical Inspection

21. Insulation Resistance/Megger

oil 2 (Ohms)	0.0452 Corr: 0	
oil 3 (Ohms)	0.0452 Corr: 0	
Megohm Stat	PASS	No
Volts (V)	498	
I(µA) .	0.0000	
Resist	> 999999	
At 40°C	270014	
PI-Status	No Test N	Te
Nameplate	Application Res	ults

22.	Winding Resistance		
	1-2	1-3	2-3

Test Time	10:38:33 AM	1
Resist Status	PASS	N
Bal L1 (Ohms)	Notes Office	
Bal L2 (Ohms)		
Bal L3 (Ohms)		
L1-L2 (Ohms)	0.0301 Corr: 0	
L2-L3 (Ohms)	0.0301 Corr: 0	
L3-L1 (Ohms)	0.0301 Corr. 0	
Max Delta R %	0.005	
Coil 1 (Ohms)	0.0452 Corr. 0	
Cail 2 (Ohms)	0.0452 Corr 0	
Coil 3 (Ohms)		
Megohm Stat.	PAST NO	Tes

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Megohms

23. Perform Surge Test



24.	Number of Stator Slots	48
25.	Stator Condition	needs cleaned
26.	Stator Thermistors/Ohms	
27.	Stator Overloads/Ohms	0.3
Mech	anical Inspection	
28.	Drive End Bearing Brand	C&U
29.	Drive End Bearing Number-	6314
30.	Drive End Bearing Qty.	1
31.	Drive End Bearing Type	(Ball) Ball Bearing
32.	Drive End Lubrication Type	(Grease) Grease Lubricated
33.	Drive End Bearing Insulation or Grounding Device?	
34.	Drive End Wavy Washer/Snap-Ring Other Retention Device?	
35.	Drive End Bearing Condition	contamination



36. Opposite Drive End Bearing Brand	C&U
37. Opposite Drive End Bearing Number-	6314
38. Opposite Drive End Bearing Qty.	1
39. Opposite Drive End Bearing Type	(Ball) Ball Bearing
40. Opposite Drive End Lubrication Type	(Grease) Grease Lubricated
41. Opposite Drive End Bearing Insulation or Grounding Device?	
42. Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?	springs and snap ring
43. Opposite Drive End Bearing Condition	contamination

44.	Drive End Seal			slinger
45.	Opposite Drive End Seal			slinger
	Inspection			-
	Rotor Type/Material		(Squirrel Alumin Cage Alumi	um) Squirrel num Die Cast
47.	Growler Test			(Pass) Pass
48.	Number of Rotor Bars			40
49.	Rotor Condition			pass
50.	List the Parts needed for the Repair 6314x2	Below		
51.	Signature of Technician that Disass			Cw
Mech	anical Fits- Rotor			
	Shaft Runout			inches
53.	Rotor Runout			
	Drive End Bearing Fit	Rotor Body	Opposite Drive Er	nd Bearing
54	Coupling Fit Closest to Bearing Hou	Ising		
01.	0 Degrees	90 Degrees	120 Degrees	
	0 Degrees	30 Degrees	120 Degrees	
55.	Coupling Fit Closest to the end of the	ne Shaft		
	0 Degrees	60 Degrees	120 Degrees	
56.	Drive End Bearing Shaft Fit			
	0 Degrees	60 Degrees	120 Degrees	
	2.7559	2.7561	2.756	
57.	Drive End Bearing Shaft Fit Condition	n		(P) Pass
58.	Opposite Drive End Bearing Shaft F	Fit		
	0 Degrees	60 Degrees	120 Degrees	
	2.756	2.7562	2.7561	
59.	Opposite Drive End Bearing Shaft F	it Condition		(P) Pass
60.	Shaft Air Seal Fits			
	Drive End Air Seal	Opposite Drive End Air Seal		
Mech	anical Fits- Bearing Housings			
	Drive End - Endbell Bearing Fit			
01.	0 Degrees	60 Degrees	120 Degrees	
	5.9064	5.9064	5.9065	
62.			0.0000	(P) Pass
-	Opposite Drive End - Endbell Beari			(. / . 455
00.		60 Degrees	120 Degrees	
	() Dedrees			
	0 Degrees 5.9064	5.9062	5.9063	

65.	Bearing Cap Condition			
	Drive End Bearing Cap	Opposite Drive End Bearing Cap		
-	Pass			
66.	End Bell Air Seal Fits			
	Drive End Air Seal	Opposite Drive End Air Seal		
67.	List Machine Work Needed Below			
68.	Technician			Cw
	Co sign: RRW			
	Cause of Failure			
69.	Failure locations			
70	Bearings Root cause of failure			
70.	Mixed grease and lack of lubrication			
Dynar	mic Balance Report			
-	Rotor Weight and Balance Grade			
	Rotor Weight	Balance Grade		
72.	Initial Balance Readings			
	Drive End	Opposite Drive End		
73.	Final Balance Readings			
	Drive End	Opposite Drive End		
	—			
	Technician			
Asser		in the Annual the		
	QC Check All Parts for Cleanliness Pi			
76. 77.	51 3 1 1	or to assembly		
	Assembled Shaft Endplay			
	Assembled Shaft Runout			
	Test Run Voltage			
	Volts	Volts	Volts	
	· one			
81.	Test Run Amperage			
	Amps	Amps	Amps	
82.	Drive End Vibration Readings - Inches	s Per Second		
	Horizontal	Vertical	Axial	
83.	Opposite Drive End Vibration Reading			
	Horizontal	Vertical	Axial	

84.	. Ambient Temperature - Fahrenheit		
85.	5. Drive End Bearing Temps - Fahrenheit		
	5 Minutes	10 Minutes	15 Minutes
86.	. Opposite Drive End Bearing Temps - Fahrenheit		
	5 Minutes	10 Minutes	15 Minutes
87.	Document Final Condition with Pictures after paint		
88.	38. Final Pics and QC Review		



STANDARD TERMS AND CONDITIONS FOR PURCHASE OF GOOD AND/OR SERVICES

- 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.
- 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. 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. 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. 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

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- 9. LIMITATION OF DAMAGES. HI-SPEED SHALL HAVE NO LIABILITY TO BUYER WITH RESPECT TO THE SALE OR DELIVERY OF ANY GOODS OR THE REPAIR THEREOF OR WITH RESPECT TO THE SALE OR PERFORMANCE OF ANY SERVICES, FOR LOST PROFITS, SPECIAL, CONSEQUENTIAL, EXEMPLARY, PUNITIVE OR INCIDENTAL DAMAGES OF ANY KIND OR NATURE WHETHER ARISING IN CONTRACT, TORT, GOODS LIABILITY OR OTHERWISE, EVEN IF HI-SPEED WAS ADVISED OF THE POSSIBILITY OF SUCH LOSS OR DAMAGES. HI-SPEED SHALL NOT BE LIABLE FOR ANY DAMAGES OR DELAYS CAUSED BY ANY FAILURE TO MAKE ANY DELIVERY OF GOODS BY ANY EXPECTED TIME OR DATE OR THE FAILURE TO PROVIDE OR COMPLETE ANY SERVICES BY ANY EXPECTED DATE OR TIME. IN NO EVENT SHALL HI-SPEED BE LIABLE TO BUYER FOR ANY DAMAGES WHATSOEVER IN EXCESS OF THE TOTAL PRICE PAID FOR ALL GOODS AND/OR SERVICES HEREUNDER OR REFERENCED IN ANY QUOTATION OR THE PURCHASE ORDER.
- 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.