

LR Motor Shop Repairs

Job Number 104304

Prepared for TREX COMPANY

2500 TREX WAY WINCHESTER VA 22601

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AC Inspection as Found TREX COMPANY

2500 TREX WAY WINCHESTER, VA 22601

FolderID: 104304 FormID: 23774297

AC I	Inspectio	n - Rev.	2
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LR MOTOR SHOP Location: Serial Number: 2403B50031

Description: HOWDWN ROOTS BLOWER

Hi-Speed Job Number:	104304
Manufacturer:	HOWDEN
Product Number:	PART#RC-2051600LB
Serial Number:	2403B50031
# of Leads:	Other
J-box Included:	None
Coupling/Sheave:	None
Bearing RTDs:	No
Stator RTDs:	No
Repair Stage:	Final
Shaft Machined Fit Repairs Required:	No
Bearing Housing Machined Fit Repairs Required:	No
Heaters:	No
Bearing Type:	Rolling Element

Priorities Found: 1 - High

11 - Good

Overall Condition

- 1. Report Date
- Nameplate Picture
- Photos of all six sides of the machine. 3.









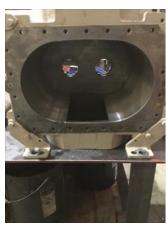
















4. Describe the Overall Condition of the Equipment as Received 5. Is this a UL Listed Motor 6. Is the motor water cooled or can be pressure checked before teardown Initial Mechanical/Electrical 7. Does Shaft Turn Freely? 8. Does the shaft require T.I.R in Lathe to identify additional repairs? (No) No 9. Does Shaft Have Visible Damage? (No) No 10. Assembled Shaft Runout 11. Assembled Shaft Runout 12. Air Gap Variation <10% 13. Lead Condition 14. Lead Length 15. Does it have Lugs?, If so what is the Stud Size? 16. Lead Numbers 17. Frame Condition 18. Fan Condition 19. Does motor have internal fan? 20. Broken or Missing Components 21. Are the Leads insulated with Chico or other material Initial Electrical Inspection Megohms				
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20. Broken or Missing Components 21. Are the Leads insulated with Chico or other material Initial Electrical Inspection		18.	Fan Condition	
21. Are the Leads insulated with Chico or other material Initial Electrical Inspection		19.	Does motor have internal fan?	
Initial Electrical Inspection		20.	Broken or Missing Components	
·		21.	Are the Leads insulated with Chico or other material	
22. Insulation Resistance/Megger Megohms	In	itial	Electrical Inspection	
		22.	Insulation Resistance/Megger	Megohms

22	Winding Resistance		
23.	-	4.0	0.0
	1-2	1-3	2-3
24.	Perform Surge Test		
25.	Number of Stator Slots		
26.	Stator Condition		
27.	Stator Thermistors/Ohms		
28.	Stator Overloads/Ohms		
Mecha	anical Inspection		
	Drive End Bearing Brand		
30.	Drive End Bearing Number-		NJ311
31.	Drive End Bearing Qty.		
-	2		
32.	Drive End Bearing Type		(Roller) Roller Bearing
33.	Drive End Lubrication Type		(Oil) Oil Lubricated
34.	Drive End Bearing Insulation or Grou	nding Device?	
35.	Drive End Wavy Washer/Snap-Ring 0	Other Retention Device?	spacers
36.	Drive End Bearing Condition		
37.	Opposite Drive End Bearing Brand		
38.	Opposite Drive End Bearing Number		NJ311
39.	Opposite Drive End Bearing Qty.		
-	2		
40.	Opposite Drive End Bearing Type		(Roller) Roller Bearing
41.	Opposite Drive End Lubrication Type		(Oil) Oil Lubricated
42.	Opposite Drive End Bearing Insulation		
43.	Opposite Drive End Wavy Washer/Sr	· · ·	wavy washers and spacers
44.	Opposite Drive End Bearing Conditio	n	
45.			
-	2-2:3/4 3-3:1/2 x2		
46.	Opposite Drive End Seal		
-	3-3:1/2 x2		
Rotor	Inspection		
	Rotor Type/Material		
48.	Growler Test		
49.	Number of Rotor Bars		
50.	Rotor Condition		
5 1.	List the Parts needed for the Repair E	Below	
	Bearings and seals		
	Signature of Technician that Disasse	mbled Motor	Cw
IVICUIT	anicar rits- Notor		

53. Shaft Runout inches

	54.	Rotor Runout		
		Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing
	55.	Coupling Fit Closest to Bearing Housing	ng	
		0 Degrees	90 Degrees	120 Degrees
	56.	Coupling Fit Closest to the end of the	Shaft	
		0 Degrees	60 Degrees	120 Degrees
		0 Dog.000	00 20g.000	120 Dog1000
	57.	Drive End Bearing Shaft Fit		
		0 Degrees	60 Degrees	120 Degrees
		•		•
	58.	Drive End Bearing Shaft Fit Condition		(P) Pass
	59.	Opposite Drive End Bearing Shaft Fit		
		0 Degrees	60 Degrees	120 Degrees
	60.	Opposite Drive End Bearing Shaft Fit	Condition	(P) Pass
	61.	Shaft Air Seal Fits		
		Drive End Air Seal	Opposite Drive End Air Seal	
B.//	b -	micel Fite Bearing Haveinge		
IVI		anical Fits- Bearing Housings		
	02.	Drive End - Endbell Bearing Fit	CO Degrees	120 Doggood
		0 Degrees	60 Degrees	120 Degrees
•	63.	Drive End - Endbell Bearing Fit Condit	ion	(P) Pass
		Opposite Drive End - Endbell Bearing		()
		0 Degrees	60 Degrees	120 Degrees
				3
	65.	Opposite Drive End - Endbell Bearing	Fit Condition	(P) Pass
	66.	Bearing Cap Condition		
		Drive End Bearing Cap	Opposite Drive End Bearing Cap	
	67.	End Bell Air Seal Fits		
		Drive End Air Seal	Opposite Drive End Air Seal	
			·	
		List Machine Work Needed Below		
	69.	Technician		Cw
		(freis		
	-	Co sign: TLH		
R	oot (Cause of Failure		
	70.	Failure locations		
		Bearings and seals		
	71.	Root cause of failure		
		Ran without oil		
D	ynan	nic Balance Report		

72.	Rotor Weight and Balance Grade		
	Rotor Weight	Balance Grade	
	-		
73.	Initial Balance Readings		
	Drive End	Opposite Drive End	
74.	Final Balance Readings		
	Drive End	Opposite Drive End	
	Technician		
Rewin			
76.	Core Test Results - Watts loss per Po		
	Pre-Burnout	Post Burnout	
77	Coro Hot Spot Tost		
11.	Core Hot Spot Test Pre-Burnout	Post-Burnout	
	Pre-Burnout	Post-Burnout	
78	Post Rewind Electrical Test- Insulation	n Resistance	
	Post Rewind Polarization Index		
	Post Rewind Winding Resistance		
33.	1-2	1-3	2-3
	1 2		2.0
81.	Post Rewind Surge Test		
82.	Post Rewind Hi-Pot		
83.	Technician		
Assen	nbly		
	QC Check All Parts for Cleanliness Pr	ior to Assembly	
85.	Photograph All Major Components pri	or to assembly	
86.			
87.	Assembled Shaft Endplay		
88.	Assembled Shaft Runout		
89.	Test Run Voltage		
	Volts	Volts	Volts
90.	Test Run Amperage		
	Amps	Amps	Amps
91.	Drive End Vibration Readings - Inches		
	Horizontal	Vertical	Axial
92.	Opposite Drive End Vibration Reading	s - Inchas Par Second	
92.			Avial
	Horizontal	Vertical	Axial
93	Ambient Temperature - Fahrenheit		
94.		t	
U	5 Minutes	10 Minutes	15 Minutes

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95.	95. Opposite Drive End Bearing Temps - Fahrenheit		
	5 Minutes	10 Minutes	15 Minutes
96.	Stator Temperatures- Fahrenheit		
	5 Minutes	10 Minutes	15 Minutes
97.	Document Final Condition with Picture	es after paint	
98.	Final Pics and QC Review		



FolderID: 104304 FormID: 23827797



AC Form Coil Winding Report

TREX COMPANY

2500 TREX WAY WINCHESTER, VA 22601

LR MOTOR SHOP

Priorities Found: 1 - Good

110111100	Tourid. 1 - Good	
Stator	Winding	
1.	Core Length	9.125 "
2.	Core ID	3.5 "
3.	Back Iron Depth	0.437 "
4.	Finger Plate Width	II
5.	Overall Coil Length	
6.	Connection End Extension Length	
7.	Opposite Connection End Extension Length	
8.	Straight Length Bottom Side	
9.	Straight Length Top Side	
10.	Small knuckle drop Connection End	
11.	Small knuckle drop opposite connection end	
12.	Large knuckle drop connection end	
13.	Large knuckle drop opposite connection end	
14.	Connection Support Ring from Core	
15.	Opposite Connection Support Ring from core	
16.	Connection Support Ring Id	
17.	Opposite Connection Support Ring ID	
18.	Slot Depth	
19.	Slot depth under wedge	
20.	Slot Width	
21.	Lead Location	
22.	Coil Type	
23.	Tooth Width	
24.	Number of Vents	
25.	Vent Width	
26.	Before Burnout Core loss	
27.	Flux Before Burnout	
28.	Watts before burnout	
29.	Watts loss per lb. before burnout	
30.	After Burnout Core Loss	
31.	Flux After burnout	
32.	Watts After Burnout	
33.	Watts loss per lb After Burnout	
34.	Core Iron Condition	
35.	RTD's	
36.	RTD's Reading	

37.	Motor Heaters	
38.	Heater Qty.	
39.	Heater Voltage	
40.	Heater Wattage	
41.	Thermistors	(Y) Yes
42.	Number of Poles	2
43.	Slots	36
44.	Number of Coils	
45.	Coil Weight	
46.	Lead Markings	
47.	Grouping	
48.	Wire Size	
49.	Turns per coil	
50.	Total Wires in parallel	
51.	Wire Insulation	
52.	Iron Skewed	
53.	Pitch 1 to:	
54.	Connection	
55.	Lead Length	
56.	Lead Size	
57.	Number of Leads	
58.	Megger Reading After Rewind	
59.	Coil Machine Slot	
60.	Coil Machine Tip	
	Coil Machine Pitch	
	Hi Pot Reading After Rewind	
	Surge Pattern After Rewind	
64.	Service Technician	RHR
	Mr H Rh	



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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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- 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.
- 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.