

EVERY DAY SINCE 1946

Motor Shop Repairs

Job Number 99269

Prepared for Arauco-Malvern MDF (10298)

1275 Willamette Rd Malvern AR 72104

Table of Contents

DC Recondition Repair Report



FolderID: 99269

FormID: 12631640

DC Recondition Repair Report

Arauco-Malvern MDF (10298)

1275 Willamette Rd Malvern, AR 72104

Priorities Found: (🛑 1 - High	18 - Good
General		
1. Job Nu	mber	99269
2. Report	Date	1/21/2022
3. Custom	ner	Arauco
Name Plate I	nformation	

Reliance

4. Manufacturer













14.	Frame	LC2512ATZ
15.	Enclosure	TENV
16.	Service Factor	
17.	Motor Mount Position	
Initial	Inspection	
18.	Lead Length	6 Inches
19.	Lead Size	2
20.	Lead Condition	(P) Pass
21.	Lead Markings	
22.	Lug Size, Condition, and Type	
23.	Winding RTD's	(NA) Not Applicable
24.	Winding Rtd's Condition	(NA) Not Applicable
25.	Shaft Run Out	
26.	Does Shaft Turn Freely	yes
27.	Does Shaft Have Visible Damage	no
28.	Bearing Rtd's	
29.	Bearing Rtd's Condition	
30.	Contamination	
	Carbon	
31.	Frame Condition	(P) Pass
32.	Fan Condition	(NA) Not Applicable
33.	Brush Condition	(P) Pass
34.	Quantity of brushes	8
35.	Brush Holder Assembly Condition	(P) Pass
W	Wash and bake	



36. Broken or missing components

Initial Electric Test

37. Armature Resistance to Ground

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7676

AEA

6.04 Ua





39. Armature Hi-Pot

40. Field Hi-Pot





Ua





41.	Armature Bar to Bar Test	
42.	DC field frame Drop Test	(P) Pass
43.	DC Field Frame Polarity Check	

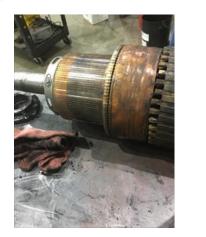
44. Field Frame Condition



45.	Field Frame Failure Location	
Initial	Armature Inspection	
46.	Air Gap <10% Variation	
47.	Number of Commutator Bars	
48.	Growler Test	(P) Pass

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wash and bake



50.	Armature Condition	Wash and bake
51.	Armature Failure Location	
Mecha	anical Inspection	
52.	Bearing Manufacture	Fag
53.	Bearing DE Size	6312



- 54. Bea 55. Bea
- 56. Bea



earing DE Type	ball bearing
aring ODE Size	6210
aring ODE Type	ball bearing





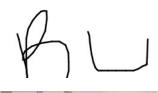
57.	Insulated Bearing	no
58.	Lubrication Type	grease
59.	Grease Condition	(F) Fail
60.	Bearing Retainers	(NA) Not Applicable
61.	Shaft Grounding Device	(Y) Yes

Replace



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81. ODE Initial Shaft Bearing Fit 1	
82. ODE Finial Shaft Bearing Fit 1	
83. ODE Initial Shaft Bearing Fit 2	
84. ODE Finial Shaft Bearing Fit 2	
85. ODE Initial Shaft Bearing Fit 3	
86. ODE Finial Shaft Bearing Fit 3	
87. DE Air Seal Shaft Fit	
88. DE Initial Air Seal Shaft Size	
89. DE Final Air Seal Shaft Size	
90. ODE Air Seal Shaft Fit	
91. ODE Initial Air Seal Shaft Size	
92. ODE Final Air Seal Shaft Size	
93. DE Endbell Fit	(P) Pass
94. DE Initial Endbell Fit Size 1	
95. DE Final Endbell Fit Size 1	
96. DE Initial Endbell Fit Size 2	
97. DE Finial Endbell Fit Size 2	
98. DE Initial Endbell Fit Size 3	
99. DE Final Endbell Fit Size 3	
100. DE Endbell Fit Insulated	(NA) Not Applicable
101. DE Endbell Air Seal Fit	
102. Initial Endbell Air Seal Fit Size	
103. Finial Endbell Air Seal Fit Size	
104. ODE Endbell Fit	(P) Pass
105. ODE Endbell Fit Insulated	(NA) Not Applicable
106. ODE Endbell Air Seal Fit	
107. ODE Initial Endbell Seal Fit Size	
108. ODE Finial Endbell Seal Fit Size	
109. Foot Flatness	(P) Pass
110. Foot Condition	(P) Pass
111. Flange Condition	(NA) Not Applicable
112. Turn and Under Cut Armature	(P) Pass
113. Service Technician	RW
RL	
Balancing Report	
114. Balance Type	
115. Balance Operating Speed	409.75 RPM
116. Start Left End	0.29 Mills
117. Start Right End	0.04 Mills
118. Balancing Specification	
119. Finish Left End	0.29 Mills





Assembly and Final Test

122. Armature Meggar Testing Reading

212,700 Mohm



123. Armature Hi-Pot

124. Field Frame Meggar Testing Reading



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173,000 Mohm

125. Field Frame Hi-Pot

126. Test Run Field Voltage



127. Test Run Field Amps	4.2 Amps
128. Test Run Armature Voltage	238.6 Volts



129. Test Run Armature Amps



130. Brushes seated	(P) Pass
131. DE Horizontal Vibration Reading	0.03 In/Sec
132. DE Vertical Vibration Reading	0.01 In/Sec
133. DE Axial Vibration Reading	0.01 In/Sec
134. ODE Horizontal Vibration Reading	0.05 In/Sec

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241.7 Volts

5.2 Amps

135. ODE Vertical Vibration Reading	0.02 In/Sec
136. ODE Axial Vibration Reading	0.01 In/Sec
137. Ambient Temp at start of Test Run	
138. Temp at 5 minutes	
139. Temp at 10 minutes	
140. Temp at 15 minutes	
141. Temp at 20 minutes	
142. Temp at 25 minutes	
143. Temp at 30 minutes	
144. Temp at 35 minutes	
145. Temp at 40 minutes	
146. Temp at 45 minutes	
147. Temp at 50 minutes	
148. Temp at 55 minutes	
149. Temp at 60 minutes	
150. Motor Paint	















151. Service Technician

RLS

RW



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- 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.
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- 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 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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- 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.
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- 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.