

LR Motor Shop Repairs

Job Number 104319

Prepared for Kimberly Clark (10176-KCM)

500 Murphy Dr. Maumelle AR 72113

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DC Recondition Repair Report

Kimberly Clark (10176-KCM) 500 Murphy Dr. Maumelle, AR 72113

Priorities Found: 33 - Good

1 Horido	Thomas Found.		
General			
1.	Job Number	104319	
2.	Report Date	03/26/2025	
3.	Customer	KIMBERLY CLARK	
Name	Name Plate Information		

Manufacturer **RELIANCE**





















5.	Model	02KA437303-PT
6.	Serial Number	02KA437303-PT
7.	Horsepower	200 HP
8.	KW	KW
9.	Armature Volts	500500 Volts
10.	Armature Amps	322 Amps
11.	Field Voltage	300 Volts
12.	Field Amps	2.76 Amps
13.	RPM	RPM
-	1750/1950	

14.	Frame	LC3612ATZ
15.	Enclosure	DP
16.	Service Factor	
17.	Motor Mount Position	
Initial	Inspection	
18.	Lead Length	9 Inches
19.	Lead Size	2
2 0.	Lead Condition	(P) Pass
21.	Lead Markings	A1 A2 S1S2. F1F2
22.	Lug Size, Condition, and Type	



23.	Winding RTD's	(NA) Not Applicable
2 4.	Winding Rtd's Condition	(NA) Not Applicable
25.	Shaft Run Out	
-	0.001	
26.	Does Shaft Turn Freely	Yes
27.	Does Shaft Have Visible Damage	No
28.	Bearing Rtd's	(NA) Not Applicable
2 9.	Bearing Rtd's Condition	(NA) Not Applicable
30.	Contamination	
	Yes	
31.	Frame Condition	(P) Pass
32.	Fan Condition	(NA) Not Applicable
33.	Brush Condition	(P) Pass
34.	Quantity of brushes	4
3 5.	Brush Holder Assembly Condition	(P) Pass
36.	Broken or missing components	
	None	
Initial	Electric Test	

37. Armature Resistance to Ground







Interpoles Armature

38. Field Resistance to Ground

131,600 Mohm





S field Fields

39.	. Armature Hi-Pot	Ua
40.	. Field Hi-Pot	Ua



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

4	4.	Field Frame Condition	pass
4	5.	Field Frame Failure Location	pass
Initi	ial	Armature Inspection	
• 4	6.	Air Gap <10% Variation	(P) Pass
4	7.	Number of Commutator Bars	
• 4	8.	Growler Test	(P) Pass
• 4	9.	Commutator Condition	(F) Fail
-)	Needs turned	
5	0.	Armature Condition	pass
5	1.	Armature Failure Location	none
Med	cha	anical Inspection	
5	2.	Bearing Manufacture	FAG
5	3.	Bearing DE Size	6219ZZ-C3





Fluting

Ball	Bearing DE Type	54.
6216/C3VL0241	Bearing ODE Size	55.





Normal wear

56. Bearing ODE Type	Ball insocoat
57. Insulated Bearing	Yes
58. Lubrication Type	grease

59. Grease Condition (P) Pass





6 0.	Bearing Retainers	(Y) Yes
6 1.	Shaft Grounding Device	(Y) Yes
62.	DE Seal	(NA) Not Applicable
63.	DE Seal Type/Size	
-	Na	
64.	ODE Seal	(NA) Not Applicable
65.	ODE Seal Type/Size	
-	Na	
Root (Cause of Failure	
66.	Component Failure	bearings
67.	Cause of Failure	
	Fluting	
68.	Comments	
	Add a ground brush	
69.	Service Technician	RW
1	Co sign: CRW	
Machi	ine Fit Inspection Report	
	Shaft Run Out	(P) Pass
		7 /

71. Initial Shaft Run Out 0.001 " 0.001 " 72. Final Shaft Run Out 73. DE Bearing Shaft Fit (P) Pass 74. DE Initial Shaft Bearing Fit 1 3.7405 " 75. DE Finial Shaft Bearing Fit 1 3.7405 " 3.7405 " 76. DE Initial Shaft Bearing Fit 2 3.7405 " 77. DE Finial Shaft Bearing Fit 2 3.7405 " 78. DE Initial Shaft Bearing Fit 3 79. DE Finial Shaft Bearing Fit 3 3.7405 " 80. ODE Bearing Shaft Fit (P) Pass 3.1499 " 81. ODE Initial Shaft Bearing Fit 1

04	ODE Finial Shoft Pooring Fit 1	3.1499 "
	2. ODE Finial Shaft Bearing Fit 1	
83	3	3.1499 "
	4. ODE Finial Shaft Bearing Fit 2	3.1499 "
	5. ODE Initial Shaft Bearing Fit 3	3.1499 "
_	6. ODE Finial Shaft Bearing Fit 3	3.1499 "
8		(P) Pass
88		11
89	9. DE Final Air Seal Shaft Size	II .
90	D. ODE Air Seal Shaft Fit	(P) Pass
9	ODE Initial Air Seal Shaft Size	"
92	2. ODE Final Air Seal Shaft Size	II .
93	3. DE Endbell Fit	(P) Pass
94	DE Initial Endbell Fit Size 1	6.6934 "
9	5. DE Final Endbell Fit Size 1	6.6934 "
90	6. DE Initial Endbell Fit Size 2	6.6934 "
9	7. DE Finial Endbell Fit Size 2	6.6934 "
98	3. DE Initial Endbell Fit Size 3	6.6934 "
99	9. DE Final Endbell Fit Size 3	6.6934 "
10	DE Endbell Fit Insulated	(N) No
• 10	DE Endbell Air Seal Fit	(P) Pass
10	2. Initial Endbell Air Seal Fit Size	II .
10	3. Finial Endbell Air Seal Fit Size	II .
10	4. ODE Endbell Fit	(P) Pass
10	5. ODE Endbell Fit Insulated	(N) No
10	6. ODE Endbell Air Seal Fit	(P) Pass
10	7. ODE Initial Endbell Seal Fit Size	н
10	8. ODE Finial Endbell Seal Fit Size	н
10	9. Foot Flatness	(P) Pass
11	0. Foot Condition	(P) Pass
11	1. Flange Condition	(NA) Not Applicable
11	2. Turn and Under Cut Armature	(P) Pass
-	Needs turned	. ,
11	3. Service Technician	RW
Bala	ancing Report	

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114. Balance Type



115. Balance Operating Speed	422 RPM
116. Start Left End	0.59 Mills
117. Start Right End	0.38 Mills
118. Balancing Specification	.5
119. Finish Left End	0.55 Mills
120. Finish Right End	0.3 Mills
121. Service Technician	RW

Assembly and Final Test

122. Armature Meggar Testing Reading 32,280 Mohm



123. Armature Hi-Pot



125. Field Frame Hi-Pot126. Test Run Field Voltage303.5 Volts



127. Test Run Field Amps	3.2 Amps
128. Test Run Armature Voltage	497 Volts



129. Test Run Armature Amps	7.5 Amps
130. Brushes seated	(P) Pass
131. DE Horizontal Vibration Reading	5 In/Sec
132. DE Vertical Vibration Reading	0.04 In/Sec
133. DE Axial Vibration Reading	0.02 In/Sec

134. ODE Horizontal Vibration Reading	0.05 In/Sec
135. ODE Vertical Vibration Reading	0.03 ln/Sec
136. ODE Axial Vibration Reading	0.01 In/Sec
137. Ambient Temp at start of Test Run	Degrees F.
138. Temp at 5 minutes	Degrees F.
139. Temp at 10 minutes	Degrees F.
140. Temp at 15 minutes	Degrees F.
141. Temp at 20 minutes	Degrees F.
142. Temp at 25 minutes	Degrees F.
143. Temp at 30 minutes	Degrees F.
144. Temp at 35 minutes	Degrees F.
145. Temp at 40 minutes	Degrees F.
146. Temp at 45 minutes	Degrees F.
147. Temp at 50 minutes	Degrees F.
148. Temp at 55 minutes	Degrees F.
149. Temp at 60 minutes	Degrees F.
● 150. Motor Paint	(P) Pass





















RW



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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.
- 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. <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.
- 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.