

Motor Shop Repairs

Job Number 99178

Prepared for DWM Construction

211 Grant Park Circle North Little Rock AR 72117

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DC Recondition Repair Report

DWM Construction

211 Grant Park Circle North Little Rock, AR 72117

Priorities Found: **2 - High**

16 - Good

General		
1.	Job Number	99178
2.	Report Date	1/3/2022
3.	Customer	DWM Construction

Name Plate Information















5.	Model	XQ-5-19MT
6.	Serial Number	BL 180043
7.	Horsepower	
8.	KW	5
9.	Armature Volts	48
10.	Armature Amps	120
11.	Field Voltage	
12.	Field Amps	7
13.	RPM	4000
14.	Frame	
15.	Enclosure	
16.	Service Factor	
17.	Motor Mount Position	
Initial	Inspection	
18.	Lead Length	Inches
19.	Lead Size	
2 0.	Lead Condition	(NA) Not Applicable
21.	Lead Markings	
22.	Lug Size, Condition, and Type	
23.	Winding RTD's	
24.	Winding Rtd's Condition	
25.	Shaft Run Out	
26.	Does Shaft Turn Freely	yes
27.	Does Shaft Have Visible Damage	no
28.	Bearing Rtd's	(NA) Not Applicable
29.	Bearing Rtd's Condition	
30.	Contamination	
	None	
3 1.	Frame Condition	(P) Pass
3 2.	Fan Condition	(NA) Not Applicable
3 3.	Brush Condition	(F) Fail
34.	Quantity of brushes	4
3 5.	Brush Holder Assembly Condition	(P) Pass

36.	Broken or missing components	
	Brush springs	
Initial	Electric Test	
37.	Armature Resistance to Ground	2000 Mohm
38.	Field Resistance to Ground	2000 Mohm
39.	Armature Hi-Pot	
40.	Field Hi-Pot	
41 .	Armature Bar to Bar Test	(P) Pass
4 2.	DC field frame Drop Test	(P) Pass
4 3.	DC Field Frame Polarity Check	(P) Pass
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
4 9.	Commutator Condition	(F) Fail
-	Turned and undercut comm.	



50.	Armature Condition	good
51.	Armature Failure Location	
Mech	anical Inspection	
52.	Bearing Manufacture	
53.	Bearing DE Size	6007 2RS
54.	Bearing DE Type	
55.	Bearing ODE Size	6305 2RS
56.	Bearing ODE Type	
57.	Insulated Bearing	
58.	Lubrication Type	
9 59.	Grease Condition	(P) Pass
60.	Bearing Retainers	(NA) Not Applicable
61.	Shaft Grounding Device	(NA) Not Applicable
62.	DE Seal	(NA) Not Applicable
63.	DE Seal Type/Size	
64.	ODE Seal	(NA) Not Applicable

65.	. ODE Seal Type/Size	
Root	Cause of Failure	
66.	. Component Failure	brushes
67.	. Cause of Failure	
	Oxidation seized brushes in rack	
68.	. Comments	
	6007 2RS, 6305 2RS, turn and undercut comm, 4-brushes, 4-brush retainer springs	
69.	. Service Technician	David Maclin
,	men	
Mach	nine Fit Inspection Report	
70.	. Shaft Run Out	
71.		
72.	. Final Shaft Run Out	
73.	3 - 4 - 4	(P) Pass
74.	3	
75.	DE Finial Shaft Bearing Fit 1	
76.	3 1	
77.		
78.	3	
79.	. DE Finial Shaft Bearing Fit 3	
80.		(P) Pass
81.		
	•	
82.	ODE Initial Shaft Bearing Fit 1 ODE Finial Shaft Bearing Fit 1	

84. ODE Finial Shaft Bearing Fit 285. ODE Initial Shaft Bearing Fit 386. ODE Finial Shaft Bearing Fit 3

88. DE Initial Air Seal Shaft Size89. DE Final Air Seal Shaft Size90. ODE Air Seal Shaft Fit

91. ODE Initial Air Seal Shaft Size92. ODE Final Air Seal Shaft Size

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
101. DE Endbell Air Seal Fit

102. Initial Endbell Air Seal Fit Size103. Finial Endbell Air Seal Fit Size

87. DE Air Seal Shaft Fit

93. DE Endbell Fit

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(P) Pass

104.	ODE Endbell Fit	(P) Pass
105.	ODE Endbell Fit Insulated	
106.	6. ODE Endbell Air Seal Fit	
107.	7. ODE Initial Endbell Seal Fit Size	
108.	ODE Finial Endbell Seal Fit Size	
1 09.	Foot Flatness	(NA) Not Applicable
110.	Foot Condition	(NA) Not Applicable
111.	Flange Condition	(P) Pass
112.	Turn and Under Cut Armature	
	Service Technician	David Maclin
	cing Report	
	Balance Type	
	Balance Operating Speed	
	Start Left End	
	Start Right End	
	Balancing Specification	
	Finish Left End	
	Finish Right End	
	Service Technician	
	nbly and Final Test Armature Meggar Testing Reading	
	Armature Hi-Pot	
	Field Frame Meggar Testing Reading	
	Field Frame Hi-Pot	
	Test Run Field Voltage	
	Test Run Field Amps	
	Test Run Armature Voltage	
	Test Run Armature Amps	
	Brushes seated	
131.	DE Horizontal Vibration Reading	
	DE Vertical Vibration Reading	
133.	DE Axial Vibration Reading	
134.	ODE Horizontal Vibration Reading	
135.	ODE Vertical Vibration Reading	
136.	ODE Axial Vibration Reading	
137.	Ambient Temp at start of Test Run	
138.	Temp at 5 minutes	
	Temp at 10 minutes	
	Temp at 15 minutes	
	Temp at 20 minutes	
	Temp at 25 minutes	
	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	



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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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- 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.
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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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- 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.