

EVERY DAY SINCE 1946

LR Motor Shop Repairs

Job Number 103107

Prepared for ARKANSAS INDUSTRIAL MACHINERY

3804 N. NONA ST NORTH LITTLE ROCK AR 72118

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Submersible Pump Repair Report - Shop

Submersible Pump Repair Report: 31020601830017



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

FolderID: 103107

FormID: 20695051

Submersible Pump Repair Report

ARKANSAS INDUSTRIAL MACHINERY

3804 N. NONA ST

NORTH LITTLE ROCK, AR 72118

Submersible Pump Repair Report	Make:	FLYGT
Location: Shop	HP:	6.5 (HP)
Serial Number: 31020601830017	Model:	1DH11C60034
Description:6.5HP SUBMERSIBLE PUMP	Serial:	31020601830017
	V:	230 (V)
	A:	8.2 (A)
	RPM:	3440 (RPM)
	Hz:	60 (Hz)
	Phase:	3

Priorities Found: **4 - High**

33 - Good

General

- 1. Job Number
- 2. Report Date
- 3. Customer

Initial Pump Inspection

4. Power Cord Wire Size





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AWG









































5. Power Cord # of Conductors 0 6. Power Cord Length 0 ft 7. Power Cord Condino (N) NA 8. Sensor Cord Wie Size 0 AWG 9. Sensor Cord # of Conductors 0 10. Sensor Cord Length 0 ft 11. Sensor Cord Condition (N) NA 12. Sensor Cord for Mater Protection? (NA) Not Applicable 13. Sensor Cord for Water Protection? (N) NA 14. Bowl Condition (N) NA 15. Impeller Condition (N) NA 16. Number of Wear Rings 0 17. Wear Ring Condition (N) NA 18. Wear Ring Size 0 in 19. Wear Ring Size 0 in 10. Wumber of Wear Ring Size 0 in 12. Seal Surfaces Condition (F) Fail 12. Seal Surfaces Condition (F) Fail 12. Seal Material on Stationary Seat unknown 13. Seal Material on Stationary Seat unknown 14. Seal Plate Condition (P) Pass 13. Seal Plate Condition (P) Pass 14. Seal Sleeve Material 0 15. S			
7. Power Cord Condition (N) NA 8. Sensor Cord Wire Size 0 AWG 9. Sensor Cord # of Conductors 0 10. Sensor Cord Length 0 ft 11. Sensor Cord Condition (N) NA 12. Sensor Cord for Thermal Protection? (NA) Not Applicable 13. Sensor Cord for Water Protection (N) NA 14. Bowl Condition (N) NA 15. Impelier Condition (N) NA 15. Impelier Condition (P) Pass 16. Number of Wear Rings 0 17. Wear Ring Condition (N) NA 18. Wear Ring Size 0 in 19. Wear Ring Size 0 in 20. Wear Ring Material na 21. Seal Surfaces Condition (F) Fail 21. Seal Surfaces Condition (F) Fail 22. Seal Material on Rotary Face unknown 23. Surfaces Condition (F) Fail 24. Seal Material on Rotary Face <td< td=""><td>5.</td><td>Power Cord # of Conductors</td><td>0</td></td<>	5.	Power Cord # of Conductors	0
8. Sensor Cord Wire Size 0 AWG 9. Sensor Cord # of Conductors 0 10. Sensor Cord Length 0 ft 11. Sensor Cord Condition (N) NA 12. Sensor Cord for Thermal Protection? (NA) Not Applicable 13. Sensor Cord for Thermal Protection (NA) Not Applicable 14. Bowl Condition (N) NA 15. Impeller Condition (P) Pass 16. Number of Wear Rings 0 17. Wear Ring Condition (N) NA 18. Wear Ring Condition (N) NA 19. Wear Ring Condition (N) NA 10. Wear Ring Condition (N) NA 19. Wear Ring Condition (N) NA 10. Wear Ring Condition (F) Fail 21. Seal Surfaces Condition (F) Fail 22. Seal Type Mechanical 23. Number of Seals 2 24. Seal Material on Rotary Face unknown 25. Seal Material on Rotary Face </td <td>6.</td> <td>Power Cord Length</td> <td>0 ft</td>	6.	Power Cord Length	0 ft
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12. Sensor Cord for Thermal Protection? (NA) Not Applicable 13. Sensor Cord for Water Protection (NA) Not Applicable 14. Bowl Condition (N) NA 15. Impeller Condition (P) Pass 16. Number of Wear Rings 0 17. Wear Ring Condition (N) NA 18. Wear Ring Condition (N) NA 18. Wear Ring Condition 0 in 19. Wear Ring Clearance to Impeller 0 in 20. Wear Ring Material na 21. Seal Surfaces Condition (F) Fail 22. Seal Type Mechanical 23. Number of Seals 2 24. Seal Material on Rotary Face unknown 25. Seal Material on Rotary Face unknown 26. Elastic Component Material Buna 27. Seal OD 0 mm 28. Seal ID 0 in 29. Seal Steeve Material 0 30. Seal Plate Condition (P) Pass 31. Water Sensor in Seal Cavity? (Y) Yes 32. Oil Filled Sala Cavity? (N) No 33. Oil Filled Sala Cavity? (N) No 10 Inches 9 35. Lead Length 10 Inches <	10.	Sensor Cord Length	0 ft
13. Sensor Cord for Water Protection (NA) Not Applicable 14. Bowl Condition (N) NA 15. Impeller Condition (P) Pass 16. Number of Wear Rings 0 17. Wear Ring Condition (N) NA 18. Wear Ring Size 0 in 19. Wear Ring Clearance to Impeller 0 in 20. Wear Ring Material na 21. Seal Surfaces Condition (F) Fail 22. Seal Type Mechanical 23. Number of Seals 2 24. Seal Material on Rotary Face unknown 25. Seal Material on Rotary Face 0 in 27. Seal OD 0 mm 28. Seal ID 0 mm 29. Seal Sleeve Material 0 in 29. Seal Plate Condition (Y) Yes 31. Water Sensor in Seal Cavity? (Y) Yes 32. Oil Filled Stator? (Y) Yes 32. Oil Filled Stator? (Y) Yes 32. Oil Filled Stator? (Y) Yes 32. Oil Fill	11.	Sensor Cord Condition	(N) NA
14.Bowl Condition(N) NA15.Impeller Condition(P) Pass16.Number of Wear Rings017.Wear Ring Condition(N) NA18.Wear Ring Condition(N) NA18.Wear Ring Size0 in19.Wear Ring Clearance to Impeller0 in20.Wear Ring Materialna21.Seal Surfaces Condition(F) Fail22.Seal Surfaces Condition(F) Fail23.Number of Seals224.Seal Material on Rotary Faceunknown25.Seal Material on Stationary Seatunknown26.Elastic Component MaterialBuna27.Seal OD0 mm28.Seal ID0 in29.Seal Sleeve Material030.Seal Plate Condition(P) Pass31.Water Sensor in Seal Cavity?(Y) Yes33.Oil Filled Stator?(N) NoInitial Inspection935.34.Number of Leads935.Lead Length10 Inches	12.	Sensor Cord for Thermal Protection?	(NA) Not Applicable
15. Impeller Condition (P) Pass 16. Number of Wear Rings 0 17. Wear Ring Condition (N) NA 18. Wear Ring Condition (N) NA 18. Wear Ring Clearance to Impeller 0 in 19. Wear Ring Clearance to Impeller 0 in 20. Wear Ring Material na 21. Seal Surfaces Condition (F) Fail 22. Seal Type Mechanical 23. Number of Seals 2 24. Seal Material on Rotary Face unknown 25. Seal Material on Stationary Seat unknown 26. Elastic Component Material Buna 27. Seal OD 0 mm 28. Seal ID 0 in 29. Seal Sleeve Material 0 30. Seal Plate Condition (P) Pass 31. Water Sensor in Seal Cavity? (Y) Yes 32. Oli Filled Stator? (N) No Instructure (N) No (Y) Yes 33. Oli Filled Stator? (N) No Instructure </td <td>13.</td> <td>Sensor Cord for Water Protection</td> <td>(NA) Not Applicable</td>	13.	Sensor Cord for Water Protection	(NA) Not Applicable
16.Number of Wear Rings017.Wear Ring Condition(N) NA18.Wear Ring Size0 in19.Wear Ring Clearance to Impeller0 in20.Wear Ring Materialna21.Seal Surfaces Condition(F) Fail22.Seal TypeMechanical23.Number of Seals224.Seal Material on Rotary Faceunknown25.Seal Material on Stationary Seatunknown26.Elastic Component MaterialBuna27.Seal OD0 mm28.Seal ID0 in29.Seal Sleeve Material030.Seal Plate Condition(P) Pass31.Water Sensor in Seal Cavity?(Y) Yes32.Oil Filled Stator?(N) NoInitial Inspection935.34.Number of Leads935.Lead Length10 Inches	14.	Bowl Condition	(N) NA
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18. Wear Ring Size 0 in 19. Wear Ring Clearance to Impeller 0 in 20. Wear Ring Material na 21. Seal Surfaces Condition (F) Fail 22. Seal Type Mechanical 23. Number of Seals 2 24. Seal Material on Rotary Face unknown 25. Seal Material on Stationary Seat unknown 26. Elastic Component Material Buna 27. Seal OD 0 mm 28. Seal ID 0 in 29. Seal Sleeve Material 0 30. Seal Plate Condition (P) Pass 31. Water Sensor in Seal Cavity? (Y) Yes 32. Oil Filled Seal Cavity? (Y) Yes 33. Oil Filled Stator? (N) No Initial Inspection 9 35. Lead Length 10 Inches	16.	Number of Wear Rings	0
19.Wear Ring Clearance to Impeller0 in20.Wear Ring Materialna21.Seal Surfaces Condition(F) Fail22.Seal TypeMechanical23.Number of Seals224.Seal Material on Rotary Faceunknown25.Seal Material on Stationary Seatunknown26.Elastic Component MaterialBuna27.Seal OD0 mm28.Seal ID0 in29.Seal Sleeve Material0 in29.Seal Plate Condition(P) Pass31.Water Sensor in Seal Cavity?(Y) Yes32.Oil Filled Seal Cavity?(Y) Yes33.Oil Filled Stator?(N) NoIntital Inspection934.Number of Leads935.Lead Length10 Inches	17.	Wear Ring Condition	(N) NA
20.Wear Ring Materialna21.Seal Surfaces Condition(F) Fail22.Seal TypeMechanical23.Number of Seals224.Seal Material on Rotary Faceunknown25.Seal Material on Stationary Seatunknown26.Elastic Component MaterialBuna27.Seal OD0 mm28.Seal ID0 in29.Seal Sleeve Material030.Seal Plate Condition(P) Pass31.Water Sensor in Seal Cavity?(Y) Yes32.Oil Filled Seal Cavity?(Y) Yes33.Oil Filled Stator?(N) NoIntital Inspection9935.Lead Length10 Inches	18.	Wear Ring Size	0 in
21. Seal Surfaces Condition(F) Fail22. Seal TypeMechanical23. Number of Seals224. Seal Material on Rotary Faceunknown25. Seal Material on Stationary Seatunknown26. Elastic Component MaterialBuna27. Seal OD0 mm28. Seal ID0 in29. Seal Sleeve Materialo30. Seal Plate Condition(P) Pass31. Water Sensor in Seal Cavity?(Y) Yes32. Oil Filled Seal Cavity?(Y) Yes33. Oil Filled Stator?(N) NoInitial Inspection935. Lead Length10 Inches	19.	Wear Ring Clearance to Impeller	0 in
22. Seal Type Mechanical 23. Number of Seals 2 24. Seal Material on Rotary Face unknown 25. Seal Material on Stationary Seat unknown 26. Elastic Component Material Buna 27. Seal OD 0 mm 28. Seal ID 0 in 29. Seal Sleeve Material o 30. Seal Plate Condition (P) Pass 31. Water Sensor in Seal Cavity? (Y) Yes 32. Oil Filled Seal Cavity? (Y) Yes 33. Oil Filled Stator? (N) No Initial Inspection 9 34. Number of Leads 9 35. Lead Length 10 Inches	20.	Wear Ring Material	na
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23. Number of Seals224. Seal Material on Rotary Faceunknown25. Seal Material on Stationary Seatunknown26. Elastic Component MaterialBuna27. Seal OD0 mm28. Seal ID0 in29. Seal Sleeve Material0 in30. Seal Plate Condition(P) Pass31. Water Sensor in Seal Cavity?(Y) Yes32. Oil Filled Seal Cavity?(Y) Yes33. Oil Filled Stator?(N) NoInitial Inspection934. Number of Leads935. Lead Length10 Inches	22.	Seal Type	Mechanical
25.Seal Material on Stationary Seatunknown26.Elastic Component MaterialBuna27.Seal OD0 mm28.Seal ID0 in29.Seal Sleeve Material030.Seal Plate Condition(P) Pass31.Water Sensor in Seal Cavity?(Y) Yes32.Oil Filled Seal Cavity?(Y) Yes33.Oil Filled Stator?(N) NoInitial Inspection934.Number of Leads935.Lead Length10 Inches	23.	Number of Seals	
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27. Seal OD0 mm28. Seal ID0 in29. Seal Sleeve Material030. Seal Plate Condition(P) Pass31. Water Sensor in Seal Cavity?(Y) Yes32. Oil Filled Seal Cavity?(Y) Yes33. Oil Filled Stator?(N) NoInitial Inspection34. Number of Leads935. Lead Length10 Inches	25.	Seal Material on Stationary Seat	unknown
28. Seal ID0 in29. Seal Sleeve Material030. Seal Plate Condition(P) Pass31. Water Sensor in Seal Cavity?(Y) Yes32. Oil Filled Seal Cavity?(Y) Yes33. Oil Filled Stator?(N) NoInitial Inspection34. Number of Leads935. Lead Length10 Inches	26.	Elastic Component Material	Buna
29. Seal Sleeve Materialo30. Seal Plate Condition(P) Pass31. Water Sensor in Seal Cavity?(Y) Yes32. Oil Filled Seal Cavity?(Y) Yes33. Oil Filled Stator?(N) NoInitial Inspection34. Number of Leads935. Lead Length10 Inches	27.	Seal OD	0 mm
30. Seal Plate Condition(P) Pass31. Water Sensor in Seal Cavity?(Y) Yes32. Oil Filled Seal Cavity?(Y) Yes33. Oil Filled Stator?(N) NoInitial Inspection34. Number of Leads935. Lead Length10 Inches	28.	Seal ID	0 in
31. Water Sensor in Seal Cavity?(Y) Yes32. Oil Filled Seal Cavity?(Y) Yes33. Oil Filled Stator?(N) NoInitial Inspection934. Number of Leads935. Lead Length10 Inches	29.	Seal Sleeve Material	0
32. Oil Filled Seal Cavity?(Y) Yes33. Oil Filled Stator?(N) NoInitial Inspection34. Number of Leads935. Lead Length10 Inches	30.	Seal Plate Condition	(P) Pass
33. Oil Filled Stator?(N) NoInitial Inspection934. Number of Leads935. Lead Length10 Inches	31.	Water Sensor in Seal Cavity?	(Y) Yes
Initial Inspection 34. Number of Leads 9 35. Lead Length 10 Inches	32.	Oil Filled Seal Cavity?	(Y) Yes
34. Number of Leads 9 35. Lead Length 10 Inches	33.	Oil Filled Stator?	(N) No
35. Lead Length 10 Inches	Initial	Inspection	
-	34.	Number of Leads	9
36. Lead Size 10	35.	Lead Length	10 Inches
	36.	Lead Size	10

	37	Lead Condition	(P) Pass
	-	Lead Markings	yes
		Lead Size for Oil Filled Stator	0 AWG
		Lug Size, Condition, and Type	0,110
	40.	None	
	41.	Overload Required?	(N) No
	42.	Winding RTD's	(NA) Not Applicable
		-	(NA) Not Applicable
	43.	Winding Rtd's Condition	
	44.	Shaft Run Out	0
		Does Shaft Turn Freely	yes
	46.	Does Shaft Have Visible Damage	no
	47.	Bearing Rtd's	(NA) Not Applicable
	48.	Bearing Rtd's Condition	(NA) Not Applicable
	49.	Contamination	
		None	
		Frame Condition	(P) Pass
	51.	Fan Condition	(P) Pass
	52.	Broken or missing components	
		None	
Ini	itial	Electric Test	
	53.	Resistance to Ground	12000 Mohm
	54.	Winding Resistance 1-2	3.029 Ohm
	55.	Winding Resistance 2-3	3.029 Ohm's
	56.	Winding Resistance 1-3	3.031 Ohm's
	57.	Resistive Imbalance	0 %
	58.	Hi-Pot	0 Ua
	59.	Surge Test	(P) Pass
		Stator Condition	good
		Failure Location	lower seal
Ini		Rotor Inspection	
		Rotor Type	cast
		Air Gap <10% Variation	(NA) Not Applicable
	64.	Number of Rotor Bars	35
	-	Number of Broken Rotor Bars	0
	65.		-
	66.	Growler Test	(P) Pass
)	67.	Rotor Condition	(P) Pass
Me		inical Inspection	
		Bearing Manufacturer	unknown
		Bearing DE Size	5305 2RS
		Bearing DE Type	double row ball
		DE Bearing Qty.	1
	72.	Bearing ODE Size	6305 2Z
	73.	Bearing ODE Type	ball
	74.	ODE Bearing Qty.	1
	75.	Insulated Bearing	none
	76.	Lubrication Type	grease

70	Bearing Retainers		(N) No
79.	Shaft Grounding Device		(NA) Not Applicable
80.	DE Seal		(NA) Not Applicable
81.	DE Seal Type/Size		na
82.	ODE Seal		(NA) Not Applicable
83.	ODE Seal Type/Size		na
Root	Cause of Failure		
84.	Component Failure		lower seal
85.	Cause of Failure		
	Unknown		
86.	Comments		
	Need Flygt seal, o ring, and bearing k	<i>sit</i>	
87.	Service Technician		David Maclin
Z)
Mach	ine Fit Inspection Report		
88.	Shaft Run Out		(NA) Not Applicable
89.	Initial Shaft Run Out		0 "
90.	Final Shaft Run Out		0 "
91.	DE Bearing Shaft Fit		(P) Pass
92.	DE Initial Shaft Bearing Fit Size		
	Measure 1	Measure 2	Measure 3
	0.9845	0.9845	0.9845
93.	0.9845 DE Final Shaft Bearing Fit Size	0.9845	0.9845
93.		0.9845 Measure 2	0.9845 Measure 3
93.	DE Final Shaft Bearing Fit Size		
	DE Final Shaft Bearing Fit Size Measure 1	Measure 2	Measure 3
94.	DE Final Shaft Bearing Fit Size Measure 1 0	Measure 2	Measure 3 0
94.	DE Final Shaft Bearing Fit Size Measure 1 0 ODE Bearing Shaft Fit	Measure 2	Measure 3 0
94. 95.	DE Final Shaft Bearing Fit Size Measure 1 0 ODE Bearing Shaft Fit ODE Initial Shaft Bearing Fit Size Measure 1 0.98440000000001	Measure 2 0	Measure 3 0 (P) Pass
94. 95.	DE Final Shaft Bearing Fit Size Measure 1 0 ODE Bearing Shaft Fit ODE Initial Shaft Bearing Fit Size Measure 1	Measure 2 0 Measure 2 0.9843	Measure 3 0 (P) Pass Measure 3
94. 95.	DE Final Shaft Bearing Fit Size Measure 1 0 ODE Bearing Shaft Fit ODE Initial Shaft Bearing Fit Size Measure 1 0.98440000000001	Measure 2 0 Measure 2	Measure 3 0 (P) Pass Measure 3 0.98440000000001
94.95.96.	DE Final Shaft Bearing Fit Size Measure 1 0 ODE Bearing Shaft Fit ODE Initial Shaft Bearing Fit Size Measure 1 ODE Final Shaft Bearing Fit Size Measure 1 0	Measure 2 0 Measure 2 0.9843	Measure 3 0 (P) Pass Measure 3 0.984400000000001
 94. 95. 96. 97. 	DE Final Shaft Bearing Fit Size Measure 1 0 ODE Bearing Shaft Fit ODE Initial Shaft Bearing Fit Size Measure 1 0DE Final Shaft Bearing Fit Size Measure 1 0 DE Air Seal Shaft Fit	Measure 2 0 Measure 2 0.9843 Measure 2	Measure 3 0 (P) Pass Measure 3 0.98440000000001
 94. 95. 96. 97. 	DE Final Shaft Bearing Fit Size Measure 1 0 ODE Bearing Shaft Fit ODE Initial Shaft Bearing Fit Size Measure 1 ODE Final Shaft Bearing Fit Size Measure 1 0	Measure 2 0 Measure 2 0.9843 Measure 2	Measure 3 0 (P) Pass Measure 3 0.984400000000001
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 94. 95. 96. 97. 98. 99. 	DE Final Shaft Bearing Fit Size Measure 1 0 ODE Bearing Shaft Fit ODE Initial Shaft Bearing Fit Size Measure 1 0.98440000000001 ODE Final Shaft Bearing Fit Size Measure 1 0 DE Air Seal Shaft Fit DE Air Seal Shaft Size Initial 0 ODE Air Seal Shaft Fit	Measure 2 0 Measure 2 0.9843 Measure 2 0 Final	Measure 3 0 (P) Pass Measure 3 0.984400000000001 Measure 3 0 (NA) Not Applicable

102. DE Initial Endbell F	Eit Sizo	
		Maaaura 2
Measure 1	Measure 2	Measure 3
2.4412	2.4413	2.4413
103. DE Final Endbell F		
Measure 1	Measure 2	Measure 3
0	0	0
104. DE Endbell Fit Inst		(NA) Not Applicable
105. DE Endbell Air Sea		(NA) Not Applicable
106. DE Endbell Air Sea		
Initial	Final	
0	0	
107. ODE Endbell Fit		(P) Pass
108. ODE Initial Endbel		
Measure 1	Measure 2	Measure 3
2.4412	2.4412	2.4412
109. ODE Final Endbell		
Measure 1	Measure 2	Measure 3
0	0	0
110. ODE Endbell Fit In		(NA) Not Applicable
111. ODE Endbell Air S		(NA) Not Applicable
112. ODE Endbell Air S	eal Fit Size	
Initial	Final	
0	0	
113. Foot Flatness		(NA) Not Applicable
114. Foot Condition		(NA) Not Applicable
115. Flange Condition		(NA) Not Applicable
116. Service Technician		David Mackin
Balancing Report		
117. Balance Type		dynamic
118. Balance Operating	Speed	422 RPM
119. Start Left End		0.0564 Mills
120. Start Right End		0.1983 Mills
121. Balancing Specific	ation	.5
122. Finish Left End		0.0564 Mills
123. Finish Right End		0.1983 Mills
124. Service Techniciar	1	David Maclin
Assembly and Final Te		>

125. Rotor and Impeller Balanced







126.	Stator Housing Refilled with Oil (if req	uired)	(N) No	
127.	Stator Pressure Test		(N) NA	
128.	Seal Cavity Pressure Test		(N) NA	
129.	Time Under Pressure		0 min	
130.	Overload Continuity		(P) Pass	
131.	Water Sensor Open?		(Y) Yes	
132.	Meggar Testing Reading		2000 Mohm	
133.	Surge Test		(P) Pass	
134.	Hi-Pot		0 Ua	
135.	Winding Resistance			
	1-2	2-3	3-1	
	0.984	0.985	0.985	
136.	Test Run		(P) Pass	
137.	Test Run Voltage			
	Phase A	Phase B	Phase C	
	230	230	230	
138.	Test Run Current			
	Phase A	Phase B	Phase C	
	1.9	1.9	1.8	

139.	. DE Vibration Reading			
	Horizontal	Vertical	Axial	
	0	0	0	
140.	. ODE Vibration Reading			
	Horizontal	Vertical	Axial	
	0	0	0	
141.	. Ambient Temp at start of Test Run			0 Degrees F.
142.	. Temp at 5 minutes			0 Degrees F.
143.	. Temp at 10 minutes			0 Degrees F.
144.	. Temp at 15 minutes			0 Degrees F.
145.	. Temp at 20 minutes			0 Degrees F.
146.	. Temp at 25 minutes			0 Degrees F.
147.	. Temp at 30 minutes			0 Degrees F.
148.	. Temp at 35 minutes			0 Degrees F.
149.	. Temp at 40 minutes			0 Degrees F.
150.	. Temp at 45 minutes			0 Degrees F.
151.	. Temp at 50 minutes			0 Degrees F.
152.	. Temp at 55 minutes			0 Degrees F.
153.	. Temp at 60 minutes			0 Degrees F.
154.	. Motor Paint			(P) Pass
. 101.	Motor Faint			(1)1000







155. Service Technician

David Maclin

Hi-Speed Industrial Service disclaims all warranties, both express and implied, relating to the information, reports, opinions and analysis disclosed to the Customer by Hi-Speed. Hi-Speed shall not be liable for any errors or omissions, or any losses, injury or damages arising from the use of such information, reports, opinions and analysis by the Customer.

Printed on 7/16/2024

Witnessed by Chris Wiley Щ.



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 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

replace any defective or non-conforming goods in accordance with the applicable manufacturer's warranty. Warranty for any defective or incorrect parts is limited to the repair or replacement of those parts. Hi-Speed warrants that all services will conform in all material respects to the description of services identified in the quotation and will be performed in a good and workmanlike manner in accordance with industry practices and standards. Should the services be reasonably rejected or not conform with the foregoing warranties, Hi-Speed shall, at its sole cost, re-perform the defective or nonconforming services. Notwithstanding the foregoing, these warranties do not extend to goods or services to the extent that such goods have been subject to misuse, neglect or abuse not caused by Hi-Speed or have been used in violation of the approved written instructions furnished to Buyer. THE FOREGOING REPRESENTS THE SOLE AND EXCLUSIVE WARRANTY GIVEN BY HI-SPEED WITH RESPECT TO ALL GOODS SOLD AND IS IN LIEU OF ALL OTHER WARRANTIES EITHER EXPRESS OR IMPLIED. HI-SPEED EXPRESSLY DISCLAIMS ALL OTHER WARRANTIES INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICLAR USE OR PURPOSE. BUYER WAIVES ANY CLAIM THAT THESE EXCLUSIONS OR LIMITATIONS DEPRIVE IT OF AN ADEQUATE REMEDY AT EQUITY OR LAW OR CAUSE THIS AGREEMENT TO FAIL IN ITS ESSENTIAL PURPOSE. BUYER SHALL BE ENTITLED TO NO OTHER REMEDY OTHER THAN AS SET FORTH HEREIN, REGARDLESS OF THE CLAIM OR CAUSE OF ACTION, WHETHER BASED IN CONTRACT, TORT, NEGLIGENCE, GOODS LIABILITY, STRICT LIABILITY OR OTHERWISE.

- 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.