



KEEPING YOUR FACILITY UP TO SPEED
— EVERY DAY SINCE 1946 —

Motor Shop Repairs

Job Number 97861

Prepared for Allerga

5585 Canal Road
Valley View OH 44125

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

AC Recondition Repair Report

FolderID: 97861
FormID: 9985870

Allerga
5585 Canal Road
Valley View, OH 44125

Priorities Found: ● 5 - High ● 10 - Good

General

1. Job Number	97861
2. Report Date	02/26/2021
3. Customer	Allerga

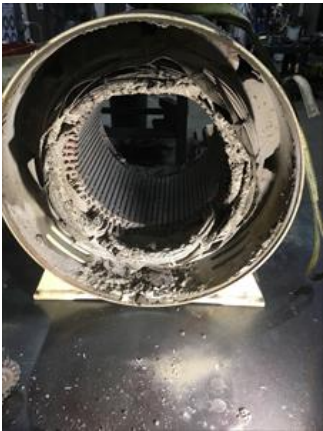
Name Plate Information

4. Manufacturer	Lincoln
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Printed on 3/4/2021

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1.2



5. Model	LM13936
6. Serial Number	U3990308
7. Horsepower	125
8. KW	
9. Volts	230,460 Volts
10. Amps	304,152 Amps
11. RPM	1785
12. Frame	405T
13. Enclosure	ODP
14. Cycles	60

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15. Phase	3
16. Service Factor	1.25
17. Motor Mount Position	F1
Initial Inspection	
18. Number of Leads	12
19. Lead Length	9 Inches
20. Lead Size	
21. Lead Condition	(F) Fail



22. Lead Markings	1-12
23. Lug Size, Condition, and Type	
24. Winding RTD's	
25. Winding Rtd's Condition	
26. Shaft Run Out	0.002
27. Does Shaft Turn Freely	yes
28. Does Shaft Have Visible Damage	no
29. Bearing Rtd's	
30. Bearing Rtd's Condition	
31. Contamination	Yes. Dirty



32. Frame Condition	(P) Pass
33. Fan Condition	(NA) Not Applicable
34. Broken or missing components	

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Initial Electric Test

35. Resistance to Ground	
36. Winding Resistance 1-2	Ohm
37. Winding Resistance 2-3	
38. Winding Resistance 1-3	
39. Resistive Imbalance	
40. Hi-Pot	
41. Surge Test	(F) Fail
42. Stator Condition	good
43. Failure Location	windings
Initial Rotor Inspection	
44. Rotor Type	squirrel cage
45. Air Gap <10% Variation	
46. Number of Rotor Bars	
47. Number of Broken Rotor Bars	0
48. Growler Test	(P) Pass
49. Rotor Condition	(P) Pass



Mechanical Inspection

50. Bearing Manufacture	nsk
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51. Bearing DE Size

63152Z



52. Bearing DE Type

regular ball bearing



53. DE Bearing Qty.

1

54. Bearing ODE Size

6313-2Z



55. Bearing ODE Type

regular ball bearing

56. ODE Bearing Qty.

1

57. Insulated Bearing

no

58. Lubrication Type

grease

59. Grease Condition

(F) Fail

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60. Bearing Retainers	(Y) Yes
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61. Shaft Grinding Device	(NA) Not Applicable
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62. DE Seal	(Y) Yes
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63. DE Seal Type/Size	
64. ODE Seal	
65. ODE Seal Type/Size	
Root Cause of Failure	
66. Component Failure	bearings

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67. Cause of Failure

Contaminated grease in bearings /windings show two phases shorted together from excessive debris inside stator. Both housing fits pitted.



68. Comments

69. Service Technician

Terrence Holland

Terrence 2/11/21

Machine Fit Inspection Report

70. Shaft Run Out	(P) Pass
71. Initial Shaft Run Out	0.002 "
72. Final Shaft Run Out	
73. DE Bearing Shaft Fit	(P) Pass
74. DE Initial Shaft Bearing Fit Size 1	2.9532 "
75. DE Initial Shaft Bearing Fit Size 2	2.9533 "
76. DE Initial Shaft Bearing Fit Size 3	2.9531 "
77. DE Final Shaft Bearing Fit Size 1	
78. DE Final Shaft Bearing Fit Size 2	
79. DE Final Shaft Bearing Fit Size 3	
80. ODE Bearing Shaft Fit	(P) Pass
81. ODE Initial Shaft Bearing Fit Size 1	2.5591 "
82. ODE Initial Shaft Bearing Fit Size 2	2.5592 "
83. ODE Initial Shaft Bearing Fit Size 3	2.5592 "
84. ODE Final Shaft Bearing Fit Size 1	
85. ODE Final Shaft Bearing Fit Size 2	
86. ODE Final Shaft Bearing Fit Size 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	"

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93. DE Endbell Fit (F) Fail

Housing fit pitted



94. DE Initial Endbell Fit Size 1 "

95. DE Initial Endbell Fit Size 2

96. DE Initial Endbell Fit Size 3

97. DE Final Endbell Fit Size 1 6.2996 "



98. DE Finial Endbell Fit Size 2 6.2996 "

99. DE Final Endbell Fit Size 3 6.2996 "

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 (F) Fail

Housing fit pitted



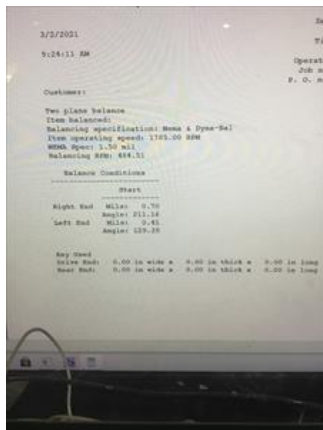
105. ODE Initial Endbell Fit Size 1	
106. ODE Initial Endbell Fit Size 2	
107. ODE Initial Endbell Fit Size 3	
108. ODE Final Endbell Fit Size 1	5.5124 "



109. ODE Final Endbell Fit Size 2	5.5124 "
110. ODE Final Endbell Fit Size 3	5.5125 "
111. ODE Endbell Fit Insulated	
112. ODE Endbell Air Seal Fit	
113. ODE Initial Endbell Seal Fit Size	
114. ODE Final Endbell Seal Fit Size	
115. Foot Flatness	
116. Foot Condition	
117. Flange Condition	
118. Service Technician	

Balancing Report

119. Balance Type



120. Balance Operating Speed

121. Start Left End

122. Start Right End

123. Balancing Specification

124. Finish Left End

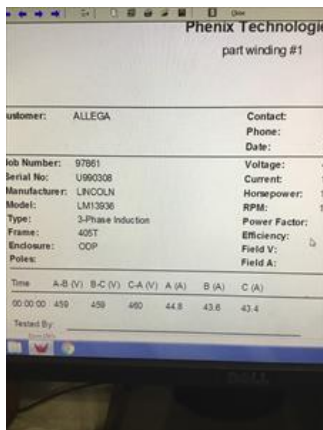
125. Finish Right End

126. Service Technician

Assembly and Final Test

127. Meggar Testing Reading

Mohm



128. Surge Test

129. Hi-Pot

130. Winding Resistance 1-2

131. Winding Resistance 2-3

132. Winding Resistance 1-3

133. Test Run Voltage Phase A

134. Test Run Amps A

135. Test Run Voltage Phase B

136. Test Run Amps B

137. Test Run Voltage Phase C

138. Test Run Amps C

139. DE Horizontal Vibration Reading

0.0433 In/Sec

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140. DE Vertical Vibration Reading	0.0335 In/Sec
141. DE Axial Vibration Reading	0.0112 In/Sec
142. ODE Horizontal Vibration Reading	0.0411 In/Sec
143. ODE Vertical Vibration Reading	0.0367 In/Sec
144. ODE Axial Vibration Reading	0.0101 In/Sec
145. Ambient Temp at start of Test Run	
146. Temp at 5 minutes	
147. Temp at 10 minutes	
148. Temp at 15 minutes	
149. Temp at 20 minutes	
150. Temp at 25 minutes	
151. Temp at 30 minutes	
152. Temp at 35 minutes	
153. Temp at 40 minutes	
154. Temp at 45 minutes	
155. Temp at 50 minutes	
156. Temp at 55 minutes	
157. Temp at 60 minutes	
158. Motor Paint	(P) Pass



159. Service Technician	David Maclin
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A handwritten signature in black ink, consisting of a series of loops and strokes, positioned at the top of the page.




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

AC Random Coil Rewind Report

FolderID: 97861
FormID: 10106162

Allerga
5585 Canal Road
Valley View, OH 44125

Priorities Found:  **3 - Good**

General

1. Job Number	97861
2. Report Date	02/26/2021
3. Customer	allega

Name Plate Information

4. Manufacturer	Lincoln
5. Model	sd4p125t61y
6. Serial Number	u3990308654
7. Horsepower	125 HP
8. KW	
9. Volts	460 Volts
10. Amps	304 Amps
11. RPM	1785 RPM
12. Frame	405t
13. Enclosure	
14. Cycles	60 HZ
15. Phase	3 PH
16. Service Factor	
17. Motor Mount Position	

Initial Inspection

18. Number of Leads	12
19. Lead Length	12 Inches
20. Lead Size	6
 21. Lead Condition	(P) Pass
22. Lead Markings	
23. Lug Size, Condition, and Type	
24. Winding RTD's	
25. Winding Rtd's Condition	
26. Shaft Run Out	
27. Does Shaft Turn Freely	
28. Does Shaft Have Visible Damage	
29. Bearing Rtd's	
30. Bearing Rtd's Condition	
31. Contamination	
32. Frame Condition	
33. Fan Condition	
34. Broken or missing components	

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Initial Electric Test	
35. Resistance to Ground	
36. Winding Resistance 1-2	
37. Winding Resistance 2-3	
38. Winding Resistance 1-3	
39. Resistive Imbalance	
40. Hi-Pot	
41. Surge Test	
42. Stator Condition	
43. Failure Location	
Initial Rotor Inspection	
44. Rotor Type	
45. Air Gap <10% Variation	
46. Number of Rotor Bars	
47. Number of Broken Rotor Bars	
48. Growler Test	
49. Rotor Condition	
Mechanical Inspection	
50. Bearing Manufacture	
51. Bearing DE Size	
52. Bearing DE Type	
53. DE Bearing Qty.	
54. Bearing ODE Size	
55. Bearing ODE Type	
56. ODE Bearing Qty.	
57. Insulated Bearing	
58. Lubrication Type	
59. Grease Condition	
60. Bearing Retainers	
61. Shaft Grounding Device	
62. DE Seal	
63. DE Seal Type/Size	
64. ODE Seal	
65. ODE Seal Type/Size	
Root Cause of Failure	
66. Component Failure	
67. Cause of Failure	
68. Comments	
69. Service Technician	
Stator Winding	
70. Core Length	9.75 "
71. Core ID	10.75 "
72. Back Iron Depth	2.125 "
73. Slot Depth	1.75 "
74. Tooth Width	0.217 "
75. Number of Vents	72
76. Vent Width	

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77. Before Burnout Core loss	(P) Pass
78. Flux Before Burnout	62.21
79. Watts before burnout	0.223 Watts
80. Watts loss per lb. before burnout	
81. After Burnout Core Loss	
82. Flux After burnout	85.191
83. Watts After Burnout	0.163 Watts
84. Watts loss per lb After Burnout	
85. Core Iron Condition	(P) Pass
86. RTD's	
87. RTD's Reading	
88. Motor Heaters	
89. Heater Qty.	
90. Heater Voltage	
91. Heater Wattage	
92. Thermistors	
93. Number of Poles	
94. Slots	
95. Number of Coils	60
96. Coil Weight	110 Lbs.
97. Lead Markings	
98. Grouping 12/6	
99. Multiple Wires	
100. Wire Size 8#16/8#15	
101. Turns per coil	3
102. Pitch 1 to:	18
103. Connection 1 or 2 cir	
104. Lead Length	12 "
105. Lead Size	6
106. Number of Leads	12
107. Megger Reading After Rewind	
108. Coil Machine Slot	
109. Coil Machine Tip	
110. Coil Machine Pitch	
111. Hi Pot Reading After Rewind	
112. Surge Pattern After Rewind	
113. Service Technician	
Machine Fit Inspection Report	
114. Shaft Run Out	
115. Initial Shaft Run Out	
116. Final Shaft Run Out	
117. DE Bearing Shaft Fit	
118. DE Initial Shaft Bearing Fit 1	
119. DE Initial Shaft Fit	

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120. DE Finial Shaft Bearing Fit 1
121. DE Initial Shaft Bearing Fit 2
122. DE Finial Shaft Bearing Fit 2
123. DE Initial Shaft Bearing Fit 3
124. DE Finial Shaft Bearing Fit 3
125. ODE Bearing Shaft Fit
126. ODE Initial Shaft Bearing Fit 1
127. ODE Finial Shaft Bearing Fit 1
128. ODE Initial Shaft Bearing Fit 2
129. ODE Finial Shaft Bearing Fit 2
130. ODE Initial Shaft Bearing Fit 3
131. ODE Finial Shaft Bearing Fit 3
132. DE Air Seal Shaft Fit
133. DE Initial Air Seal Shaft Size
134. DE Final Air Seal Shaft Size
135. ODE Air Seal Shaft Fit
136. ODE Initial Air Seal Shaft Size
137. ODE Final Air Seal Shaft Size
138. DE Endbell Fit
139. DE Initial Endbell Fit Size 1
140. DE Final Endbell Fit Size 1
141. DE Initial Endbell Fit Size 2
142. DE Finial Endbell Fit Size 2
143. DE Initial Endbell Fit Size 3
144. DE Final Endbell Fit Size 3
145. DE Endbell Fit Insulated
146. DE Endbell Air Seal Fit
147. Initial Endbell Air Seal Fit Size
148. Finial Endbell Air Seal Fit Size
149. ODE Endbell Fit
150. ODE Endbell Fit Insulated
151. ODE Endbell Air Seal Fit
152. ODE Initial Endbell Seal Fit Size
153. ODE Finial Endbell Seal Fit Size
154. Foot Flatness
155. Foot Condition
156. Flange Condition
157. Service Technician
Balancing Report
158. Balance Type
159. Balance Operating Speed
160. Start Left End
161. Start Right End
162. Balancing Specification
163. Finish Left End
164. Finish Right End
165. Service Technician

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Assembly and Final Test

166. Meggar Testing Reading
167. Surge Test
168. Hi-Pot
169. Winding Resistance 1-2
170. Winding Resistance 2-3
171. Winding Resistance 1-3
172. Test Run Voltage Phase A
173. Test Run Amps A
174. Test Run Voltage Phase B
175. Test Run Amps B
176. Test Run Voltage Phase C
177. Test Run Amps C
178. DE Horizontal Vibration Reading
179. DE Vertical Vibration Reading
180. DE Axial Vibration Reading
181. ODE Horizontal Vibration Reading
182. ODE Vertical Vibration Reading
183. ODE Axial Vibration Reading
184. Ambient Temp at start of Test Run
185. Temp at 5 minutes
186. Temp at 10 minutes
187. Temp at 15 minutes
188. Temp at 20 minutes
189. Temp at 25 minutes
190. Temp at 30 minutes
191. Temp at 35 minutes
192. Temp at 40 minutes
193. Temp at 45 minutes
194. Temp at 50 minutes
195. Temp at 55 minutes
196. Temp at 60 minutes
197. Motor Paint
198. Service Technician



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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 Buyer 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. **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

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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. **SEVERABILITY.** 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, earthquake, 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. **NONWAIVER.** 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.