



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

LR Motor Shop Repairs

Job Number 102026

Prepared for LAYNE (10766)

2015 S Main Street
STUTT GART AR 72160

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AC Inspection as Found - *Motor Shop*

AC Inspection - Rev. 2

1.0

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Printed on 1/10/2024

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

AC Inspection as Found

LAYNE (10766)
2015 S Main Street
STUTTGART, AR 72160

FolderID: 102026
FormID: 18247376

AC Inspection - Rev. 2

Location: Motor Shop

Serial Number:

Description: 300 HP VERTICAL

Hi-Speed Job Number: 102026

Manufacturer: US Motors/Nidec

Spec/ID #: T0120112293-0001R0

HP/kW: 300 (HP)

RPM: 1785 (RPM)

Frame: 447VP

Voltage: 460

Current: 338

Phase: Three

Hz: 60 (Hz)

Service Factor: 1.15

Enclosure: WPI

of Leads: 6

J-box Included: None

Date Received: 10/24/2023

Repair Stage: Final

Priorities Found: ● 3 - High ● 5 - Good

Overall Condition

- Report Date
- Nameplate Picture

10/27/2023



- Photos of all six sides of the machine.

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1.1







4.	Describe the Overall Condition of the Equipment as Received	
	<i>Dirty</i>	
5.	Distance from the end of the shaft to the Coupling/Sheave	0 inches
Initial Mechanical/Electrical		
<input checked="" type="radio"/>	6. Does Shaft Turn Freely?	(Yes) Yes
<input type="radio"/>	7. Does Shaft Have Visible Damage?	(No) No
<input type="radio"/>	8. Assembled Shaft Runout	0 Inches

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9.	Assembled Shaft End Play	0 inches
10.	Air Gap Variation <10%	ok
11.	Lead Condition	(P) Pass
12.	Lead Length	24 Inches
13.	Lead Numbers	1-3 1-3
14.	Stator Temperature Detector Rating and Function	
	Quantity	Rating
	0	0
15.	Bearing Temperature Detector Rating and Function	
	Quantity	Rating
	0	0
16.	Frame Condition	good
17.	Fan Condition	(N) NA
18.	Heater Quantity, Ratings	
	Quantity	Volts/Watts
	0	0
19.	Broken or Missing Components	none
Initial Electrical Inspection		
20.	Insulation Resistance/Megger	0 Megohms
21.	Winding Resistance	
	1-2	1-3
	0	0
22.	Perform Surge Test	(F) Fail
23.	Number of Stator Slots	72
24.	Stator Condition	rewind
25.	Stator Thermistors/Ohms	na
26.	Stator Overloads/Ohms	na
Mechanical Inspection		
27.	Drive End Bearing Brand	koyo
28.	Drive End Bearing Number-	73228
29.	Drive End Bearing Qty.	1
30.	Drive End Bearing Type	(Thrust) Thrust
	<i>Angular contact</i>	
31.	Drive End Lubrication Type	(Oil) Oil Lubricated
32.	Drive End Bearing Insulation or Grounding Device?	none
33.	Drive End Wavy Washer/Snap-Ring Other Retention Device?	none
34.	Drive End Bearing Condition	slight wear
35.	Opposite Drive End Bearing Brand	koyo
36.	Opposite Drive End Bearing Number-	6215
37.	Opposite Drive End Bearing Qty.	1
38.	Opposite Drive End Bearing Type	(Ball) Ball Bearing
39.	Opposite Drive End Lubrication Type	(Grease) Grease Lubricated
40.	Opposite Drive End Bearing Insulation or Grounding Device?	none
41.	Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?	snap ring and spacer
42.	Opposite Drive End Bearing Condition	slight wear
43.	Drive End Seal	none
44.	Opposite Drive End Seal	slinger

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45. DE Sleeve Bearing Inside Diameter		
0 degrees	120 degrees	240 degrees
0	0	0
46. DE Sleeve Bearing Outside Diameter		
0 degrees	120 degrees	240 degrees
0	0	0
47. DE Sleeve Bearing Housing Inside Diameter		
0 degrees	120 degrees	240 degrees
0	0	0
48. DE Sleeve Bearing to Housing Clearance		
0 degrees	120 degrees	240 degrees
0	0	0
49. ODE Sleeve Bearing Inside Diameter		
0 degrees	120 degrees	240 degrees
0	0	0
50. ODE Sleeve Bearing Outside Diameter		
0 degrees	120 degrees	240 degrees
0	0	0
51. ODE Sleeve Bearing Housing Inside Diameter		
0 degrees	120 degrees	240 degrees
0	0	0
52. ODE Sleeve Bearing to Housing Clearance		
0 degrees	120 degrees	240 degrees
0	0	0
Rotor Inspection		
53. Rotor Type/Material		(Squirrel Aluminum) Squirrel Cage Aluminum Die Cast
54. Growler Test		(Pass) Pass
55. Number of Rotor Bars		58
56. Rotor Condition		good
57. List the Parts needed for the Repair Below <i>Rewind, 73228, 6215</i>		
58. Signature of Technician that Disassembled Motor		David Maclin
		
Mechanical Fits- Rotor		
59. Shaft Runout		0 inches
60. Rotor Runout		
Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing
0	0	0
61. Coupling Fit Closest to Bearing Housing		
0 Degrees	90 Degrees	120 Degrees
0	0	0

62. Coupling Fit Closest to the end of the Shaft		
0 Degrees	60 Degrees	120 Degrees
0	0	0
63. Drive End Bearing Shaft Fit		
0 Degrees	60 Degrees	120 Degrees
4.3313	4.3315	4.3317
64. Drive End Bearing Shaft Fit Condition		(P) Pass
65. Opposite Drive End Bearing Shaft Fit		
0 Degrees	60 Degrees	120 Degrees
2.9529	2.9531	2.953
66. Opposite Drive End Bearing Shaft Fit Condition		(P) Pass
67. Shaft Air Seal Fits		
Drive End Air Seal	Opposite Drive End Air Seal	
ok	ok	
Mechanical Fits- Bearing Housings		
68. Drive End - Endbell Bearing Fit		
0 Degrees	60 Degrees	120 Degrees
0	0	0
69. Drive End - Endbell Bearing Fit Condition		(P) Pass
70. Opposite Drive End - Endbell Bearing Fit		
0 Degrees	60 Degrees	120 Degrees
5.1195	5.1196	5.1196
71. Opposite Drive End - Endbell Bearing Fit Condition		(F) Fail
72. Bearing Cap Condition		
Drive End Bearing Cap	Opposite Drive End Bearing Cap	
na	ok	
73. End Bell Air Seal Fits		
Drive End Air Seal	Opposite Drive End Air Seal	
ok	ok	
74. List Machine Work Needed Below <i>Sleeve ode</i>		
75. Technician		David Mackin
		
Root Cause of Failure		
76. Failure locations		
77. Root cause of failure		
Dynamic Balance Report		
78. Rotor Weight and Balance Grade		
Rotor Weight	Balance Grade	
79. Initial Balance Readings		
Drive End	Opposite Drive End	

80. Final Balance Readings			
Drive End	Opposite Drive End		
81. Technician			
Rewind			
82. Core Test Results - Watts loss per Pound			
Pre-Burnout	Post Burnout		
83. Core Hot Spot Test			
Pre-Burnout	Post-Burnout		
84. Post Rewind Electrical Test- Insulation Resistance			
85. Post Rewind Polarization Index			
86. Post Rewind Winding Resistance			
1-2	1-3	2-3	
87. Post Rewind Surge Test			
88. Post Rewind Hi-Pot			
89. Technician			
 RHR-RW			
Mechanical Fits- Rotor - Post Repair			
90. Shaft Runout Post Repair			
91. Rotor Runout Post Repair			
Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing	
92. Coupling Fit Closest to Bearing Housing Post Repair			
0 Degrees	90 Degrees	120 Degrees	
93. Coupling Fit Closest to the end of the Shaft Post Repair			
0 Degrees	60 Degrees	120 Degrees	
94. Drive End Bearing Shaft Fit Post Repair			
0 Degrees	60 Degrees	120 Degrees	
95. Opposite Drive End Bearing Shaft Fit Post Repair			
0 Degrees	60 Degrees	120 Degrees	
96. Shaft Air Seal Fits Post Repair			
Drive End Air Seal	Opposite Drive End Air Seal		
97. Shaft Repair Sign-off			
Mechanical Fits- Bearing Housings - Post Repair			
98. Drive End - Endbell Bearing Fit Post Repair			
0 Degrees	60 Degrees	120 Degrees	

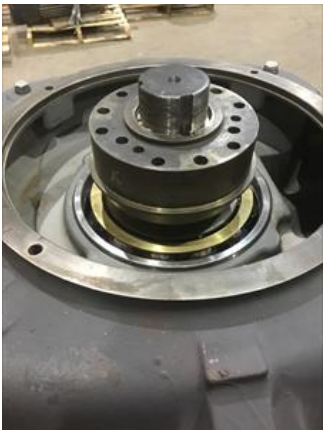
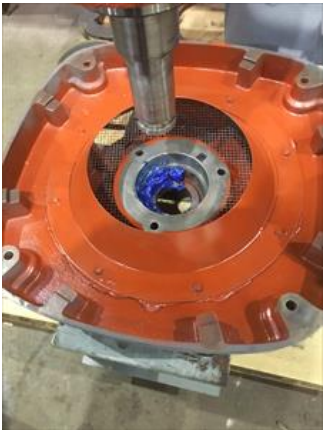
99. Opposite Drive End - Endbell Bearing Fit Post Repair		
0 Degrees	60 Degrees	120 Degrees
5.1185	5.1185	5.1185



100. Bearing Cap Condition Post Repair		
Drive End Bearing Cap	Opposite Drive End Bearing Cap	
101. End Bell Air Seal Fits Post Repair		
Drive End Air Seal	Opposite Drive End Air Seal	
102. DE Sleeve Bearing Inside ID Post Repair		
Measure 1	Measure 2	Measure 3
103. DE Sleeve Bearing Outside ID Post Repair		
Measure 1	Measure 2	Measure 3
104. DE Sleeve Bearing Inside OD Post Repair		
Measure 1	Measure 2	Measure 3
105. DE Sleeve Bearing Outside OD Post Repair		
Measure 1	Measure 2	Measure 3
106. End Bell Repair Sign-off		Gary
		
		
107. ODE Sleeve Bearing Inside ID Post Repair		
Measure 1	Measure 2	Measure 3
108. ODE Sleeve Bearing Outside ID Post Repair		
Measure 1	Measure 2	Measure 3
109. ODE Sleeve Bearing Inside OD Post Repair		
Measure 1	Measure 2	Measure 3

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110. ODE Sleeve Bearing Outside OD Post Repair		
Measure 1	Measure 2	Measure 3
Assembly		
111. QC Check All Parts for Cleanliness Prior to Assembly		
112. Photograph All Major Components prior to assembly		



113. Final Insulation Resistance Test	Megohms
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1.2-1.3 (Ohms)	0.0295 Corr 0...	0.324 Corr 0.3...	0.362 Corr 0.3...	0.00013 C
1.3-1.1 (Ohms)	0.0294 Corr 0...	0.326 Corr 0.3...	0.361 Corr 0.3...	0.357 Cor
Max Delta 0.1%	0.307	0.630	0.117	174.027
Coil 1 (Ohms)	0.0147 Corr 0...	0.163 Corr 0.1...	0.181 Corr 0.1...	0.425 Corr
Coil 2 (Ohms)	0.0148 Corr 0...	0.161 Corr 0.1...	0.181 Corr 0.1...	0.06842 Co
Coil 3 (Ohms)	0.0147 Corr 0...	0.162 Corr 0.1...	0.181 Corr 0.1...	-0.068 Corr
Mechanical Stat.	PASS	PASS	PASS	No Test
Volts (V)	508	504	504	
Ip(A)	0.0111	0.0044	0.0047	
Resist	45796	114973	108340	
At 40°C	12365	31044	29253	
V Status	No Test	No Test	No Test	No Test
Homeplate	Application	Results Summary	Surge	PI
				Step/Range

114. Assembled Shaft Endplay

115. Assembled Shaft Runout

116. Test Run Voltage

Volts

Volts

Volts

 In picture



117. Test Run Amperage

Amps

Amps

Amps

 In picture




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118. Drive End Vibration Readings - Inches Per Second		
Horizontal	Vertical	Axial
0.008	0.007	0.007
119. Opposite Drive End Vibration Readings - Inches Per Second		
Horizontal	Vertical	Axial
0.008999999999999999	0.008	0.008
120. Ambient Temperature - Fahrenheit		
Na		
121. Drive End Bearing Temps - Fahrenheit		
5 Minutes	10 Minutes	15 Minutes
Na		
122. Drive End Bearing Temps - Fahrenheit 20-30 Minutes		
20 Minutes	25 Minutes	30 Minutes
Na		
123. Drive End Bearing Temps - Fahrenheit 35-45 Minutes		
35 Minutes	40 Minutes	45 Minutes
Na		
124. Drive End Bearing Temps - Fahrenheit 50-60 Minutes		
50 Minutes	55 Minutes	60 Minutes
Na		
125. Opposite Drive End Bearing Temps - Fahrenheit		
5 Minutes	10 Minutes	15 Minutes
Na		
126. Opposite Drive End Bearing Temps - Fahrenheit 20-30 Minutes		
20 Minutes	25 Minutes	30 Minutes
Na		
127. Opposite Drive End Bearing Temps - Fahrenheit 35-45 Minutes		
35 Minutes	40 Minutes	45 Minutes
Na		
128. Opposite Drive End Bearing Temps - Fahrenheit 50-60 Minutes		
50 Minutes	55 Minutes	60 Minutes
Na		
129. Stator Temperatures- Fahrenheit		
5 Minutes	10 Minutes	15 Minutes
Na		
130. Stator Temperatures- Fahrenheit 20-30 Minutes		
20 Minutes	25 Minutes	30 Minutes
Na		

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131. Stator Temperatures- Fahrenheit 35-45 Minutes		
35 Minutes	40 Minutes	45 Minutes
Na		
132. Stator Temperatures- Fahrenheit 50-60 Minutes		
50 Minutes	55 Minutes	60 Minutes
Na		
133. Document Final Condition with Pictures after paint		



134. Final Pics and QC Review	Cw
	
Co sign: RRW	



STANDARD TERMS AND CONDITIONS FOR PURCHASE OF GOOD AND/OR SERVICES

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.
3. **SCOPE OF GOODS AND/OR SERVICES.** 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. **BILLING AND PAYMENT TERMS.** 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 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

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 PARTICULAR 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. **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.