

Motor Shop Repairs

Job Number 99586

Prepared for City of Batesville (012100)

500 Riverbank Batesville AR 72501

Table of Contents

AC Recondition As Found - Shop

AC Recondition - Rev. 2: A1907302081

1.0



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

> FolderID: 99586 FormID: 13222261

AC Recondition As Found

City of Batesville (012100)

500 Riverbank Batesville, AR 72501

Location: Shop
Serial Number: A1907302081

Manufacturer:	Baldor
Product Number:	ECP44302T-4
Spec/ID #:	P44G3953
Serial Number:	A1907302081
HP/kW:	300 (HP)
RPM:	3570 (RPM)
Voltage:	460
Current:	318
Phase:	Three
Hz:	60 (Hz)
Enclosure:	TEFC
# of Leads:	6

None

Final

Coupling 03/31/2022

99586

Hi-Speed Job Number:

J-box Included:
Coupling/Sheave:

Date Received: Repair Stage:

Overall Condition

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. Report Date









- 2. Nameplate Picture
- 3. Describe the Overall Condition of the Equipment as Received
- 4. Distance from the end of the shaft to the Coupling/Sheave

Initial Mechanical/Electrical

- 5. Does Shaft Turn Freely?
- 6. Does Shaft Have Visible Damage?
- 7. Assembled Shaft Runout
- 8. Assembled Shaft End Play
- 9. Air Gap Variation <10%

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10	Lead Condition			
	Lead Length			
	Stator Temperature Detector Rating and Function			
12.	Quantity	Rating	Quantity Passed	
	Quantity	Raung	Quantity Fassed	
13.	Bearing Temperature Detector Rating and Function			
	Quantity	Rating	Quantity Passed	
	•	<u> </u>	,	
14.	Frame Condition			
15.	Fan Condition			
16.	Heater Quantity, Ratings			
	Quantity	Volts/Watts	Pass/Fail	
	Broken or Missing Components			
	Electrical Inspection			
	Insulation Resistance/Megger			
19.	Winding Resistance			
	1-2	1-3	2-3	
20	Perform Surge Test			
	Stator Condition			
	anical Inspection			
	Drive End Bearing Number-			
	Drive End Bearing Qty.			
24.				
25.				
26.	Drive End Bearing Insulation or Groun	uding Davice?		
27.		-		
28.		Milet Retention Device:		
29.				
	Opposite Drive End Bearing Qty.			
	Opposite Drive End Bearing Type			
32.				
33.		or Grounding Device?		
34.				
35.		•		
36.	•			
	Opposite Drive End Seal			
	DE Sleeve Bearing Inside ID			
	Measure 1	Measure 2	Measure 3	
39.	DE Sleeve Bearing Outside ID			
	Measure 1	Measure 2	Measure 3	
40.	DE Sleeve Bearing Inside OD			
	Measure 1	Measure 2	Measure 3	

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41	DE Sleeve Bearing Outside OD			
71.	Measure 1	Measure 2	Measure 3	
	Weddure 1	Wedgure 2	Wedsure 5	
42.	2. ODE Sleeve Bearing Inside ID			
	Measure 1	Measure 2	Measure 3	
43.	ODE Sleeve Bearing Outside ID			
	Measure 1	Measure 2	Measure 3	
4.4	ODE Observe Description Outside OD			
44.	ODE Sleeve Bearing Outside OD Measure 1	Measure 2	Magazira 2	
	Measure 1	Measure 2	Measure 3	
45.	ODE Sleeve Bearing Inside OD			
	Measure 1	Measure 2	Measure 3	
Rotor	Inspection			
	Rotor Type/Material			
47.	Growler Test			
	Number of Rotor Bars			
49.	Rotor Condition			
50.	List the Parts needed for the Repair E	Below		
	Signature of Technician that Disasser	mbled Motor		
Mech	anical Fits- Rotor			
	Shaft Runout			
53.	Rotor Runout			
	Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing	
54.	Coupling Fit Closest to Bearing House	ing		
	0 Degrees	90 Degrees	120 Degrees	
	9	ŭ	3	
55.	5. Coupling Fit Closest to the end of the Shaft			
	Coupling Fit Closest to the end of the	Shaft		
	Coupling Fit Closest to the end of the O Degrees	Shaft 60 Degrees	120 Degrees	
F0	0 Degrees		120 Degrees	
56.	0 Degrees Drive End Bearing Shaft Fit	60 Degrees	ū	
56.	0 Degrees		120 Degrees 120 Degrees	
56. 57.	0 Degrees Drive End Bearing Shaft Fit 0 Degrees	60 Degrees 60 Degrees	ū	
	O Degrees Drive End Bearing Shaft Fit O Degrees Drive End Bearing Shaft Fit Condition	60 Degrees 60 Degrees	ū	
57.	O Degrees Drive End Bearing Shaft Fit O Degrees Drive End Bearing Shaft Fit Condition	60 Degrees 60 Degrees	ū	
57.	O Degrees Drive End Bearing Shaft Fit O Degrees Drive End Bearing Shaft Fit Condition Opposite Drive End Bearing Shaft Fit O Degrees	60 Degrees 60 Degrees 60 Degrees	120 Degrees	
57. 58.	O Degrees Drive End Bearing Shaft Fit O Degrees Drive End Bearing Shaft Fit Condition Opposite Drive End Bearing Shaft Fit O Degrees Opposite Drive End Bearing Shaft Fit	60 Degrees 60 Degrees 60 Degrees	120 Degrees	
57. 58.	O Degrees Drive End Bearing Shaft Fit O Degrees Drive End Bearing Shaft Fit Condition Opposite Drive End Bearing Shaft Fit O Degrees Opposite Drive End Bearing Shaft Fit Shaft Air Seal Fits	60 Degrees 60 Degrees Condition	120 Degrees	
57. 58.	O Degrees Drive End Bearing Shaft Fit O Degrees Drive End Bearing Shaft Fit Condition Opposite Drive End Bearing Shaft Fit O Degrees Opposite Drive End Bearing Shaft Fit	60 Degrees 60 Degrees 60 Degrees	120 Degrees	
57. 58. 59. 60.	O Degrees Drive End Bearing Shaft Fit O Degrees Drive End Bearing Shaft Fit Condition Opposite Drive End Bearing Shaft Fit O Degrees Opposite Drive End Bearing Shaft Fit Shaft Air Seal Fits Drive End Air Seal	60 Degrees 60 Degrees Condition	120 Degrees	
57. 58. 59. 60.	O Degrees Drive End Bearing Shaft Fit O Degrees Drive End Bearing Shaft Fit Condition Opposite Drive End Bearing Shaft Fit O Degrees Opposite Drive End Bearing Shaft Fit Shaft Air Seal Fits Drive End Air Seal anical Fits- Bearing Housings	60 Degrees 60 Degrees Condition	120 Degrees	
57. 58. 59. 60.	O Degrees Drive End Bearing Shaft Fit O Degrees Drive End Bearing Shaft Fit Condition Opposite Drive End Bearing Shaft Fit O Degrees Opposite Drive End Bearing Shaft Fit Shaft Air Seal Fits Drive End Air Seal anical Fits- Bearing Housings Drive End - Endbell Bearing Fit	60 Degrees 60 Degrees Condition Opposite Drive End Air Seal	120 Degrees 120 Degrees	
57. 58. 59. 60.	O Degrees Drive End Bearing Shaft Fit O Degrees Drive End Bearing Shaft Fit Condition Opposite Drive End Bearing Shaft Fit O Degrees Opposite Drive End Bearing Shaft Fit Shaft Air Seal Fits Drive End Air Seal anical Fits- Bearing Housings	60 Degrees 60 Degrees Condition	120 Degrees	

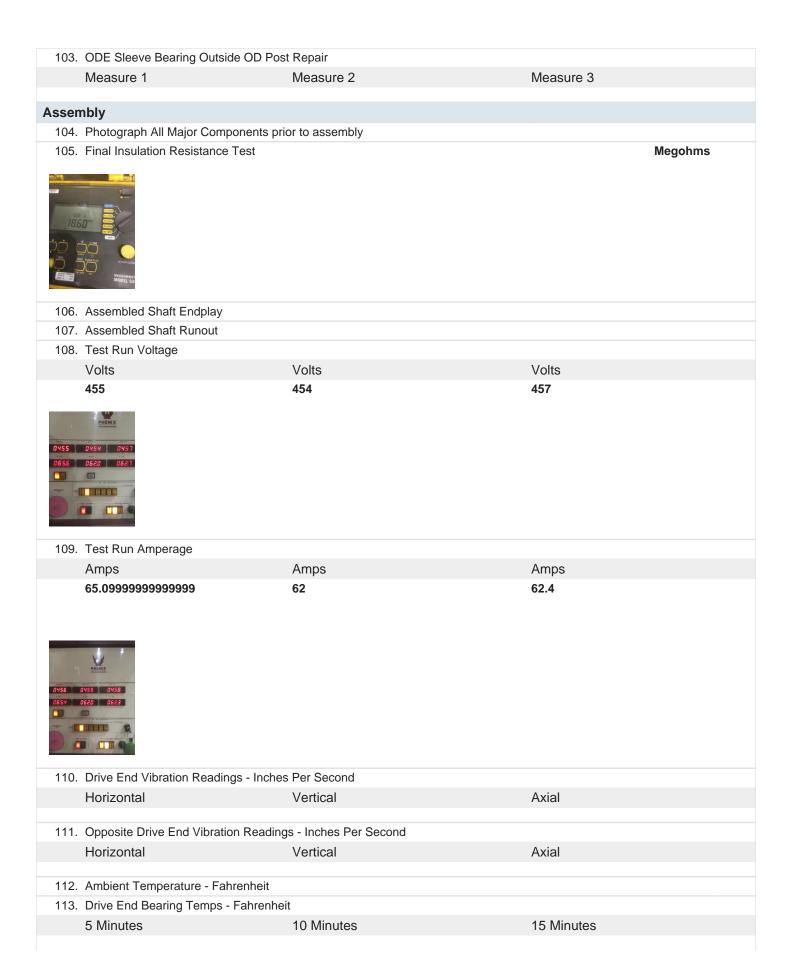
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00	Opposite Drive Ford Fordball Decrine	F:4	
63.	Opposite Drive End - Endbell Bearing		400 5
	0 Degrees	60 Degrees	120 Degrees
64	Opposite Drive End. Endhall Bearing	Eit Condition	
	Opposite Drive End - Endbell Bearing Fit Condition Bearing Cap Condition		
65.		Onnesite Drive Ford Bearing Con	
	Drive End Bearing Cap	Opposite Drive End Bearing Cap	
66	End Bell Air Seal Fits		
00.	Drive End Air Seal	Opposite Drive End Air Seal	
	Drive Life All Seal	Opposite Drive Life All Seal	
67.	List Machine Work Needed Below		
68.	Technician		
Dynar	nic Balance Report		
-	Rotor Weight and Balance Grade		
	Rotor Weight	Balance Grade	
	3 7		
70.	Initial Balance Readings		
	Drive End	Opposite Drive End	
71.	Final Balance Readings		
	Drive End	Opposite Drive End	
70	Tankaisiaa		
	Technician		
Rewin			
73.	Core Test Results - Watts loss per Po		
	Pre-Burnout	Post Burnout	
74	Core Hot Spot Test		
7-7.	Pre-Burnout	Post-Burnout	
	i ie-Buillout	r ost-burnout	
75.	Post Rewind Electrical Test- Insulation	n Resistance	
76.	Post Rewind Polarization Index		
77.	Post Rewind Winding Resistance		
	1-2	1-3	2-3
78.	Post Rewind Surge Test		
79.	Post Rewind Hi-Pot		
80.	Technician		
Root	Cause of Failure		
81.	Failure locations		
82.	Root cause of failure		
Mecha	anical Fits- Rotor - Post Repair		
83.	Shaft Runout Post Repair		
84.	Rotor Runout Post Repair		
	Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing
85.	1 0	· · · · · · · · · · · · · · · · · · ·	
	0 Degrees	90 Degrees	120 Degrees

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86.	6. Coupling Fit Closest to the end of the Shaft Post Repair			
	0 Degrees	60 Degrees	120 Degrees	
			_	
87.	Drive End Bearing Shaft Fit Post Rep			
	0 Degrees	60 Degrees	120 Degrees	
88	88. Opposite Drive End Bearing Shaft Fit Post Repair			
00.	0 Degrees	60 Degrees	120 Degrees	
		00 209.000	0 _ 0 g. 0 0 0	
89.	Shaft Air Seal Fits Post Repair			
	Drive End Air Seal	Opposite Drive End Air Seal		
00	Shaft Repair Sign-off			
	anical Fits- Bearing Housings - P	ost Panair		
	Drive End - Endbell Bearing Fit Post F	•		
01.	0 Degrees	60 Degrees	120 Degrees	
	0 D0g1000	00 D0g1000	120 Dog:000	
92.	Opposite Drive End - Endbell Bearing	Fit Post Repair		
	0 Degrees	60 Degrees	120 Degrees	
00	Pagring Can Candition Doct Pagain			
93.	Bearing Cap Condition Post Repair Drive End Bearing Cap	Opposite Drive End Bearing Cap		
	Drive End Bearing Cap	Opposite Drive End Bearing Cap		
94.	End Bell Air Seal Fits Post Repair			
	Drive End Air Seal	Opposite Drive End Air Seal		
0.5	550			
95.	DE Sleeve Bearing Inside ID Post Re		M 0	
	Measure 1	Measure 2	Measure 3	
96.	DE Sleeve Bearing Outside ID Post R	epair		
	Measure 1	Measure 2	Measure 3	
97.	DE Sleeve Bearing Inside OD Post Ro			
	Measure 1	Measure 2	Measure 3	
98.	DE Sleeve Bearing Outside OD Post	Repair		
	Measure 1	Measure 2	Measure 3	
	End Bell Repair Sign-off			
100.	ODE Sleeve Bearing Inside ID Post R	•		
	Measure 1	Measure 2	Measure 3	
101	ODE Sleeve Bearing Outside ID Post	Repair		
101.	Measure 1	Measure 2	Measure 3	
			5354.0	
102.	ODE Sleeve Bearing Inside OD Post	Repair		
	Measure 1	Measure 2	Measure 3	

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114. Drive End Bearing Temps - Fa	ahrenheit 20-30 Minutes		
20 Minutes	25 Minutes	30 Minutes	
115. Drive End Bearing Temps - Fa	ahrenheit 35-45 Minutes		
35 Minutes	40 Minutes	45 Minutes	
116. Drive End Bearing Temps - Fa			
50 Minutes	55 Minutes	60 Minutes	
447 Opposite Drive End Bearing T	anna Fahrankait		
117. Opposite Drive End Bearing T	·	45.10	
5 Minutes	10 Minutes	15 Minutes	
118. Opposite Drive End Bearing T	emps - Fahrenheit 20-30 Minutes		
20 Minutes	25 Minutes	30 Minutes	
20 Millates	23 Millutes	30 Millutes	
119. Opposite Drive End Bearing T	emps - Fahrenheit 35-45 Minutes		
35 Minutes	40 Minutes	45 Minutes	
120. Opposite Drive End Bearing T	emps - Fahrenheit 50-60 Minutes		
50 Minutes	55 Minutes	60 Minutes	
121. Stator Temperatures- Fahrenh	neit		
5 Minutes	10 Minutes	15 Minutes	
122. Stator Temperatures- Fahrenh			
20 Minutes	25 Minutes	30 Minutes	
400 04-4 T	of OF AF Minutes		
123. Stator Temperatures- Fahrenh			
35 Minutes	40 Minutes	45 Minutes	
124 Stater Temperatures Tehren	poit 50 60 Minutos		
124. Stator Temperatures- Fahrenh		CO Minutes	
50 Minutes	55 Minutes	60 Minutes	
405 Final Test Dun Cinn off		DW	

125. Final Test Run Sign-off







126. Document Final Condition with Pictures after paint

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127. Final Pics and QC Review

RW





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- 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 bee 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. <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. 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 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.

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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.