

# LR Motor Shop Repairs

## **Job Number 102676**

Prepared for Sage V Foods

5901 SLOAN DRIVE LITTLE ROCK AR 72206

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AC Inspection - Rev. 2

1.0



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### **AC Inspection as Found**

Sage V Foods 5901 SLOAN DRIVE

LITTLE ROCK, AR 72206

AC Inspection - Rev. 2

Location:

MOTOR SHOP LR

Serial Number:

Description: 100 HP DP RUSH NO O.T.

Hi-Speed Job Number:	102676
Manufacturer:	Baldor
Spec/ID #:	P668771
Serial Number:	A1712192068
HP/kW:	100 (HP)
RPM:	3555 (RPM)
Frame:	365TSC
Voltage:	230 / 460
Current:	224 / 112
Phase:	Three
Hz:	60 (Hz)
Service Factor:	1.25
Enclosure:	DP
J-box Included:	None
Coupling/Sheave:	None
Date Received:	03/20/2024
Repair Stage:	Final

Priorities Found: **a** 2 - High



8 - Good

#### **Overall Condition**

- Report Date
- Nameplate Picture



Photos of all six sides of the machine.



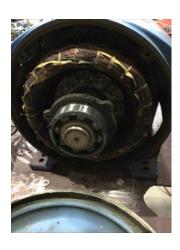






















4. Describe the Overall Condition of the Equipment as Received *Dirty* 

#### **Initial Mechanical/Electrical**

5. Does Shaft Turn Freely?

(Y) Yes

6. Does the shaft require T.I.R in Lathe to identify additional repairs?

(No) No



8.	Assembled Shaft Runout	0 Inches
9.	Assembled Shaft End Play	inches
-	Na	
10.	Air Gap Variation <10%	
-	Na	
11.	Lead Condition	(P) Pass



12. Lead Length 16 Inches



# 13. Does it have Lugs?, If so what is the Stud Size? (Yes) Yes 14. Lead Numbers 1-12

15. Stator Temperature Detector Rating and Function			
	Quantity	Rating	Quantity Passed
-	Na		
16.	Bearing Temperature Detector Rating	and Function	
	Quantity	Rating	Quantity Passed
	·	-	•
-	Na		
17.	Frame Condition		pass
18.	Fan Condition		(N) NA
19.	Heater Quantity, Ratings		
	Quantity	Volts/Watts	Pass/Fail
-	Na		
20.	Broken or Missing Components		
-	None		
Initial	Electrical Inspection		
21.	Insulation Resistance/Megger		15 Megohms
22.	Winding Resistance		
	1-2	1-3	2-3
	0.1018	0.144	0.246
23.	Perform Surge Test		(F) Fail
-	Rewind		



24. Number of Stator Slots 48

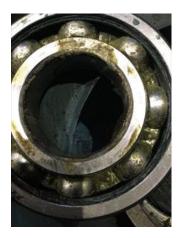
25. Stator Condition Rewind turn to turn short





26.	Stator Thermistors/Ohms	
-	Na	
27.	Stator Overloads/Ohms	
-	Na	
Mecha	nical Inspection	
28.	Drive End Bearing Brand	Peer
29.	Drive End Bearing Number-	6313
30.	Drive End Bearing Qty.	1
31.	Drive End Bearing Type	(Ball) Ball Bearing
32.	Drive End Lubrication Type	(Grease) Grease Lubricated
33.	Drive End Bearing Insulation or Grounding Device?	
-	Na	
34.	Drive End Wavy Washer/Snap-Ring Other Retention Device?	na
35.	Drive End Bearing Condition	axial load





37. Opposite Drive End Bearing Number-	6313
38. Opposite Drive End Bearing Qty.	1
39. Opposite Drive End Bearing Type	(Ball) Ball Bearing
40. Opposite Drive End Lubrication Type	(Grease) Grease Lubricated
41. Opposite Drive End Bearing Insulation or Grounding Device?	
Na	
42. Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device	e? no
43. Opposite Drive End Bearing Condition	axial load



44.	Drive End Seal		
-	Na		
45.	Opposite Drive End Seal		
-	Na		
46.	DE Sleeve Bearing Inside Diameter		
	0 degrees	120 degrees	240 degrees
	Na		
47			
47.	DE Sleeve Bearing Outside Diameter		
	0 degrees	120 degrees	240 degrees
-	Na		

48.	DE Sleeve Bearing Housing Inside Dia	ameter			
	0 degrees	120 degrees	240 degrees		
-	Na				
49.	DE Sleeve Bearing to Housing Cleara	nce			
	0 degrees	120 degrees	240 degrees		
-	Na				
50.	ODE Sleeve Bearing Inside Diameter				
	0 degrees	120 degrees	240 degrees		
-	Na				
51.	3				
	0 degrees	120 degrees	240 degrees		
_	.,				
-	Na				
52.	ODE Sleeve Bearing Housing Inside I	Diameter			
	0 degrees	120 degrees	240 degrees		
-	Na				
53.	0 0				
	0 degrees	120 degrees	240 degrees		
_	M-				
-	Na				
Rotor	Rotor Inspection				

(Squirrel Aluminum) Squirrel Cage Aluminum Die Cast



54. Rotor Type/Material

55.	Growler Test	(Pass) Pass
56.	Number of Rotor Bars	38
57.	Rotor Condition	dirty needs washed
58.	List the Parts needed for the Repair Below	
	2-6313 bearings	
59.	Signature of Technician that Disassembled Motor	
Mecha	anical Fits- Rotor	
60.	Shaft Runout	0.0003 inches

61.	Rotor Runout			
	Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing	
-	Na			
62.	Coupling Fit Closest to Bearing Housi	ng		
	0 Degrees	90 Degrees	120 Degrees	
-	Na			
63.	. Coupling Fit Closest to the end of the Shaft			
	0 Degrees	60 Degrees	120 Degrees	
-	Na			
64.	Drive End Bearing Shaft Fit			
	0 Degrees	60 Degrees	120 Degrees	
	2.5594	2.5594	2.5594	
65.	Drive End Bearing Shaft Fit Condition		(P) Pass	



66.	66. Opposite Drive End Bearing Shaft Fit			
	0 Degrees	60 Degrees	120 Degrees	
	2.5592	2.5592	2.5592	
67.	67. Opposite Drive End Bearing Shaft Fit Condition			(P) Pass



68. Shaft Air Seal Fits	
Drive End Air Seal	Opposite Drive End Air Seal

Mech	Mechanical Fits- Bearing Housings			
69.	69. Drive End - Endbell Bearing Fit			
	0 Degrees	60 Degrees	120 Degrees	
	5.5135	5.5135	5.5135	
<b>0</b> 70.	70. Drive End - Endbell Bearing Fit Condition			(F) Fail



71.	71. Opposite Drive End - Endbell Bearing Fit			
	0 Degrees	60 Degrees	120 Degrees	
	5.513	5.513	5.513	
72.	72. Opposite Drive End - Endbell Bearing Fit Condition			(P) Pass



73.	Bearing Cap Condition	
	Drive End Bearing Cap	Opposite Drive End Bearing Cap
	pass	pass
74.	End Bell Air Seal Fits	
	Drive End Air Seal	Opposite Drive End Air Seal
-	Na	
75.	List Machine Work Needed Below  De end bell bearing fit bad	

76.	Technician		RW
Root (	Cause of Failure		
77.	Failure locations		
	Connection end bottom side of winding	close to the iron	
78.	Root cause of failure		
	Dirty		
-	nic Balance Report		
79.	Rotor Weight and Balance Grade		
	Rotor Weight	Balance Grade	
80	Initial Balance Readings		
00.	Drive End	Opposite Drive End	
	Drive Life	Opposite Drive Lift	
81.	Final Balance Readings		
	Drive End	Opposite Drive End	
82.	Technician		
Rewin			
83.	Core Test Results - Watts loss per Po	und	
	Pre-Burnout	Post Burnout	
0.4	Coro Hot Spot Toot		
04.	Core Hot Spot Test Pre-Burnout	Post-Burnout	
	Pie-Buillout	Post-Bulliout	
85.	Post Rewind Electrical Test- Insulation	n Resistance	
86.	Post Rewind Polarization Index		
87.	Post Rewind Winding Resistance		
	1-2	1-3	2-3
88.	Post Rewind Surge Test		
89.	Post Rewind Hi-Pot		
	Technician		
	anical Fits- Rotor - Post Repair		
	Shaft Runout Post Repair		
92.	Rotor Runout Post Repair		0 " 0 " 5   5   5
	Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing
93.	Coupling Fit Closest to Bearing Housin	ng Post Repair	
	0 Degrees	90 Degrees	120 Degrees

60 Degrees

94. Coupling Fit Closest to the end of the Shaft Post Repair

0 Degrees

120 Degrees

95.	. Drive End Bearing Shaft Fit Post Repair			
	0 Degrees	60 Degrees	120 Degrees	
96.	Opposite Drive End Bearing Shaft Fit	·	400 Damasa	
	0 Degrees	60 Degrees	120 Degrees	
97.	. Shaft Air Seal Fits Post Repair			
	Drive End Air Seal	Opposite Drive End Air Seal		
	Shaft Repair Sign-off			
	anical Fits- Bearing Housings - P	-		
99.	Drive End - Endbell Bearing Fit Post F		400 5	
	0 Degrees	60 Degrees	120 Degrees	
100.	Opposite Drive End - Endbell Bearing	Fit Post Repair		
	0 Degrees	60 Degrees	120 Degrees	
		G	ŭ	
101.	Bearing Cap Condition Post Repair			
	Drive End Bearing Cap	Opposite Drive End Bearing Cap		
102	End Bell Air Seal Fits Post Repair			
102.	Drive End Air Seal	Opposite Drive End Air Seal		
	Dive End Air Gedi	Opposite Drive End Air Ocal		
103.	DE Sleeve Bearing Inside ID Post Re	pair		
	Measure 1	Measure 2	Measure 3	
404	DE 01 D	<u> </u>		
104.	DE Sleeve Bearing Outside ID Post R	•	Magazina	
	Measure 1	Measure 2	Measure 3	
105.	DE Sleeve Bearing Inside OD Post Ro	epair		
	Measure 1	Measure 2	Measure 3	
106.	DE Sleeve Bearing Outside OD Post			
	Measure 1	Measure 2	Measure 3	
107.	End Bell Repair Sign-off			
	ODE Sleeve Bearing Inside ID Post Repair			
	Measure 1	Measure 2	Measure 3	
109.	ODE Sleeve Bearing Outside ID Post	•		
	Measure 1	Measure 2	Measure 3	
110	ODE Sleeve Bearing Inside OD Post	Renair		
110.	Measure 1	Measure 2	Measure 3	
111.	ODE Sleeve Bearing Outside OD Pos	t Repair		
	Measure 1	Measure 2	Measure 3	
Α -				
Assen	embly  2. OC Chack All Parts for Claanlingss Prior to Assembly			
11/				

112. QC Check All Parts for Cleanliness Prior to Assembly

113.	Photograph All Major Components p	rior to assembly	
	Final Insulation Resistance Test		
115.	Assembled Shaft Endplay		
116.	Assembled Shaft Runout		
117.	Test Run Voltage		
	Volts	Volts	Volts
118.	Test Run Amperage		
	Amps	Amps	Amps
440	D:	D 0	
119.	Drive End Vibration Readings - Inch		A: a l
	Horizontal	Vertical	Axial
120.	Opposite Drive End Vibration Readin	ngs - Inches Per Second	
	Horizontal	Vertical	Axial
121.	Ambient Temperature - Fahrenheit		
	Drive End Bearing Temps - Fahrenh	eit	
	5 Minutes	10 Minutes	15 Minutes
122	Drive End Bearing Temps - Fahrenh	oit 20 20 Minutos	
123.	20 Minutes	25 Minutes	30 Minutes
	20 Millutes	25 Millitutes	30 Millutes
124.	Drive End Bearing Temps - Fahrenh	eit 35-45 Minutes	
	35 Minutes	40 Minutes	45 Minutes
125.	Drive End Bearing Temps - Fahrenh	eit 50-60 Minutes	
	50 Minutes	55 Minutes	60 Minutes
400	Opposite Drive Ford Bearing Towns	Februaria i	
126.	Opposite Drive End Bearing Temps 5 Minutes	10 Minutes	45 Minutes
	5 Minutes	TO Minutes	15 Minutes
127.	Opposite Drive End Bearing Temps	- Fahrenheit 20-30 Minutes	
	20 Minutes	25 Minutes	30 Minutes
128.	Opposite Drive End Bearing Temps	- Fahrenheit 35-45 Minutes	
	35 Minutes	40 Minutes	45 Minutes
400	0 " 0 5 10 1 7	E 1 1 1 1 1 E 2 2 2 1 1 1 1	
129.	Opposite Drive End Bearing Temps		00 MF
	50 Minutes	55 Minutes	60 Minutes
130.	Stator Temperatures- Fahrenheit		
	5 Minutes	10 Minutes	15 Minutes
104	Stater Temperatures Fahranhait 20	20 Minutos	
131.	Stator Temperatures- Fahrenheit 20		20 Minutos
	20 Minutes	25 Minutes	30 Minutes
132.	Stator Temperatures- Fahrenheit 35	-45 Minutes	
	35 Minutes	40 Minutes	45 Minutes

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133. Stator Temperatures- Fahrenheit 50-60 Minutes			
50 Minutes	55 Minutes	60 Minutes	
134. Document Final Condition with Pictures after paint			
135. Final Pics and QC Review			



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- 1. APPLICABILITY. The sale of any and all goods and/or services by Mock, Inc. d/b/a Hi-Speed Industrial Service ("Hi-Speed") shall be specifically conditioned upon and subject to the following terms and conditions which are incorporated by reference into any contracts and purchase orders with Hi-Speed, and which shall form and become a part of any agreement related thereto. Buyer's acceptance of any offer or quotation made by Hi-Speed for sale of any goods or services is expressly made subject to the terms and conditions set forth herein and to be so effective, Buyer need not sign or approve these Terms and Conditions to be bound hereunder provided a copy of same is provided to Buyer through any means. None of the terms and conditions contained herein may be added to, expanded, changed, modified, superseded or otherwise altered except as revised in writing and duly executed by Hi-Speed, and all orders received by Hi-Speed shall be governed only by the terms and conditions contained herein, notwithstanding any terms, conditions or provisions of any purchase order, release order, authorization or any other form issued by the Buyer. Hi-Speed hereby objects to any additional, modified, changed, deleted, altered or other terms and conditions not contained herein and notifies Buyer that any such terms or provisions are expressly rejected by Hi-Speed.
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- 4. <u>BILLING AND PAYMENT TERMS.</u> Hi-Speed shall invoice Buyer for all goods and/or services as same are rendered at the address listed on the quotation. Payments for all goods and/or services shall be due thirty (30) days from the date of the current invoice or as otherwise set forth in the quotation. Late payments are subject to a late fee of 5% of the total invoice amount. Recurring late payments may lead to a deposit requirement on future services or sale of goods. Buyer shall be liable to Hi-Speed for any and all fees and expenses incurred by Hi-Speed to collect any invoices or to enforce these Standard Terms and Conditions, including but not limited to, attorney's fees.
- 5. <u>DELIVERY OF GOODS AND/OR SERVICES.</u> Unless otherwise identified in the quotation, all shipments are F.O.B. Hi-Speed's warehouse and the title to and all risk of loss with respect to any goods shipped shall pass to Buyer when such goods are delivered to the carrier at Hi-Speed's warehouse. Hi-Speed will use its best efforts to affect delivery by the date or dates specified in the quotation. However, Hi-Speed shall not be liable for delay in or failure to make shipment, or to perform services, by any identified date for any reason whatsoever, including but not limited to, causes beyond its reasonable control, such as strikes, fires, floods, epidemics, quarantines, restrictions, severe weather, embargos, acts of God, or public enemy, war, riot, delays in transportation or the inability to obtain necessary labor, materials or manufacturing facilities.
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- 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 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. <u>LIMITATION OF DAMAGES.</u> 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. **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.