

Motor Shop Repairs

Job Number 97403

Prepared for SAGE

5901 SLOAN DRIVE LITTLE ROCK AR 72206

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AC Recondition Repair Report

SAGE

5901 SLOAN DRIVE LITTLE ROCK, AR 72206 Performed By: Motor Shop LR Date Completed: 10/9/2020 FolderID: 97403 FormID: 9052185

Priorities	s Found: 1 - High 15 - Good				
General					
1.	Job Number	97403			
2.	Report Date				
3.	Customer	SAGE			
Name	Plate Information		О		
4.	Manufacturer	BALDOR	P5		
5.	Model				
6.	Serial Number				
7.	Horsepower	50			
8.	KW				
9.	Volts				
-	230/460				
10.	Amps				
-	114/57				
11.	RPM	1775			
12.	Frame	326TDZ			
13.	Enclosure	TEFC			
14.	Cycles	60			
15.	Phase	3			
16.	Service Factor	1.0			
17.	Motor Mount Position	F1			
Initial	Inspection		О		
18.	Number of Leads	3	P13		
19.	Lead Length	12 Inches			
20.	Lead Size				
2 1.	Lead Condition	(P) Pass			
22.	Lead Markings				
23.	Lug Size, Condition, and Type				
	None				
24.	Winding RTD's	(NA) Not Applicable			
25.	Winding Rtd's Condition	(NA) Not Applicable			
26.	Shaft Run Out	0.003			
27.	Does Shaft Turn Freely	yes			
28.	Does Shaft Have Visible Damage	no	P93		
29.	Bearing Rtd's	(NA) Not Applicable			
30.	Bearing Rtd's Condition	(NA) Not Applicable			

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None (P) Pass P109	31	Contamination		
33. Frame Condition (P) Pass P108 33. Fan Condition (P) Pass P108 34. Broken or missing components P108 Initial Electric Test 35. Resistance to Ground Mohm P7 36. Winding Resistance 1-2 Winding Resistance 2-3 Winding Resistance 1-3 Ohm's P36 39. Resistive Imbalance P7 P85 P57 41. Surge Test (P) Pass P57 42. Stator Condition good P6 43. Fallure Location good P6 44. Rotor Type squirrel cage 44. Rotor Type squirrel cage 45. Air Cap + 10% Variation graph = 10% 46. Number of Rotor Bars 40 47 47. Number of Rotor Bars 40 47 48. Growler Test (P) Pass P52 49. Rotor Condition (P) Pass P52 49.	51.			
33. Fan Condition (P) Pass P108 34. Broken or missing components Initial Electric Test 35. Resistance to Ground Mohm P7 36. Winding Resistance 1-2 37. Winding Resistance 1-3 38. Winding Resistance 1-3 39. Resistive Imbalance 40. Hi-Pot 9000 9000 9000 9000 9000 9000 9000 90	32		(P) Pass	
34. Broken or missing components	_			P109
Initial Electric Test			(1)1 000	
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36. Winding Resistance 1-2 37. Winding Resistance 2-3 38. Winding Resistance 2-3 39. Resistive Imbalance 40. Hi-Pot 41. Surge Test (P) Pass P57 42. Stator Condition good P60 43. Fallure Location bearings Initial Rotor Inspection 44. Rotor Type squirrel cage 45. Air Gay -10% Variation 46. Number of Broken Rotor Bars 40 47. Number of Broken Rotor Bars 40 48. Growler Test (P) Pass P52 Mechanical Inspection 50. Bearing Manufacture RSR P51 51. Bearing DE Size 6312 2SS/C3 P14 52. Bearing ODE Size 6312 2SS/C3 P14 53. DE Bearing ODE Size 6312 2SS/C3 P155. Bearing ODE Size 6311 2ZS/C3 P155. Bearing ODE Size 755. Bearing ODE Size 7555. Bearing			Mohm	
37. Winding Resistance 2-3 38. Winding Resistance 1-3 39. Resistive Imbalance 40. Hi-Pot 411. Surge Test 412. Stator Condition 414. Rotor Condition 415. Air Gap <10% Variation 416. Number of Rotor Bars 417. Number of Broken Rotor Bars 418. Growler Test 419. Rotor Condition 419. Rotor Condition 420. Air Gap <10% Variation 430. Air Gap <10% Variation 4410. Number of Broken Rotor Bars 442. Rotor Type 443. Growler Test 444. Rotor Type 445. Air Gap <10% Variation 446. Number of Broken Rotor Bars 447. Number of Broken Rotor Bars 448. Growler Test 459. Rotor Condition 460. RSR 470. Pass 471. RSR 470. Pass 470. RSR 470. RSR 470. Pass 470. RSR 470. RSR 470. Pass 470. RSR 470. RSR 470. Pass 470. RSR 470.			WOIIII	. ,
38. Winding Resistance 1-3 Ohm's P35 39. Resistive Imbalance 40. Hi-Pot 41. Surge Test (P) Pass P57 41. Surge Test (P) Pass P60 P60 42. Stator Condition good P60		•		
39. Resistive Imbalance 40. Hi-Pot 41. Surge Test (P) Pass P57 42. Stator Condition good P60 43. Failure Location bearings Initial Rotor Inspection 44. Rotor Type squirrel cage 45. Air Gap <10% Variation 46. Number of Rotor Bars 40. 47. Number of Broken Rotor Bars 49. Rotor Condition (P) Pass 49. Rotor Condition (P) Pass 49. Rotor Condition (P) Pass 49. Rotor Specific RSR 49. Rotor Specific RSR 40. 50. Bearing Manufacture 8 RSR 51. Bearing DE Size 6312 2RS/C3 52. Bearing DE Type Sealed, ball bearing 53. DE Bearing Qty. 154. Bearing ODE Size 6311 2Z/C3 54. Bearing ODE Type 155. Bearing ODE Type 166. ODE Bearing Qty 177. Insulated Bearing 178. Lubrication Type 189. Grease Condition (F) Fail 189. Dirty 180. D			Ohm'a	D35
40. Hi-Pot 41. Surge Test (P) Pass P57 42. Stator Condition good P60 43. Failure Location bearings Initial Rotor Inspection 44. Rotor Type squirrel cage 45. Air Gap <10% Variation 46. Number of Rotor Bars 0 48. Growler Test (P) Pass 49. Rotor Condition (P) Pass 49. Rotor Bearing Manufacture RSR P1 51. Bearing DE Size 6312 2RS/C3 P14 52. Bearing DE Type Sealed, ball bearing P23 53. DE Bearing Qty. 1 54. Bearing ODE Type Sealed, ball bearing P23 55. Bearing ODE Type regular ball bearing P43 56. ODE Bearing Qty. 1 57. Insulated Bearing Not 1 P58 59. Grease Condition (F) Fail P58 60. Bearing Retainers (Y) Yes P68 61. Shaft Grounding Device (Y) Yes P68 63. DE Seal Type/Size 64. ODE Seal 65. ODE Seal			Ollilis	1 33
41. Surge Test				
42. Stator Condition good bearings P60 43. Failure Location bearings Initial Rotor Inspection squirrel cage 44. Rotor Type squirrel cage 45. Air Gap <10% Variation			(D) Door	DET
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44. Rotor Type squirrel cage 45. Air Gap <10% Variation			bearings	_
45. Air Gap <10% Variation 46. Number of Rotor Bars 40. 47. Number of Broken Rotor Bars 49. Rotor Condition (P) Pass 49. Rotor Condition (P) Pass 63.12 RS/C3 P14 52. Bearing Manufacture 53. DE Bearing DE Type 54. Bearing ODE Type 55. Bearing ODE Size 56. ODE Bearing Qty. 57. Insulated Bearing 58. Lubrication Type 60. Bearing Retainers 61. Shaft Grounding Device 42. Aegis. Worn/Replace. Shaft size 2.8750. 62. DE Seal 63. DE Seal (Y) Yes 64. ODE Seal 65. ODE Seal 67. Insulated Bearing 66. ODE Seal (Y) Yes 67. Insulated Bearing 68. Lubrication Type 69. Grease Condition (F) Fail P75. Insulated Bearing (Y) Yes P86. ODE Seal (Y) Yes				0
46. Number of Rotor Bars 40 47. Number of Broken Rotor Bars 0 48. Growler Test (P) Pass ■ 49. Rotor Condition (P) Pass ■ 49. Rotor Condition 50. Bearing Manufacture 51. Bearing DE Size 52. Bearing DE Type 53. DE Bearing Oty. 54. Bearing ODE Size 55. Bearing ODE Size 56. ODE Bearing Oty. 57. Insulated Bearing 58. Lubrication Type 59. Grease Condition 60. Bearing Retainers 61. Shaft Grounding Device 4 Aegis. Worn/Replace. Shaft size 2.8750. 62. DE Seal 63. DE Seal 64. ODE Seal 65. ODE Seal 66. ODE Seal 67. Yes 66. Shaft Grounding Device 67. Shaft Size 2.8750. 68. ODE Seal 69. ODE Seal 69. ODE Seal 69. ODE Seal 60. ODE Seal 60. ODE Seal 60. DE Seal 60. ODE Seal		••	squirrel cage	
47. Number of Broken Rotor Bars 0 ● 48. Growler Test (P) Pass ● 49. Rotor Condition (P) Pass P52 Mechanical Inspection 50. Bearing Manufacture RSR P1 51. Bearing DE Size 6312 2RS/C3 P14 52. Bearing DE Type Sealed, ball bearing P23 53. DE Bearing Qty. 1 + 54. Bearing ODE Size 6311 2Z/C3 P43 55. Bearing ODE Type regular ball bearing P47 56. ODE Bearing Qty. 1 P58 57. Insulated Bearing 1 P58 59. Grease Condition (F) Fail P75 Dirty Dirty 60. Bearing Retainers (Y) Yes P75 61. Shaft Grounding Device (Y) Yes P81 Aegis. Worn/Replace. Shaft size 2.8750. (Y) Yes P81 62. DE Seal (Y) Yes P81 63. DE Seal Type/Size P96		•		
● 48. Growler Test (P) Pass ● 49. Rotor Condition (P) Pass Mechanical Inspection RSR 50. Bearing Manufacture RSR P1 51. Bearing DE Size 6312 2RS/C3 P14 52. Bearing DE Type Sealed, ball bearing P23 53. DE Bearing Qty. 1 P43 54. Bearing ODE Size 6311 2Z/C3 P43 55. Bearing ODE Type regular ball bearing P47 56. ODE Bearing Qty. 1 P58 57. Insulated Bearing no 58. Lubrication Type polyrex em P68 59. Grease Condition (F) Fail P75 Dirty 60. Bearing Retainers (Y) Yes P81 61. Shaft Grounding Device (Y) Yes P81 Aegis. Worn/Replace. Shaft size 2.8750. (Y) Yes P81 62. DE Seal (Y) Yes P86 63. DE Seal Type/Size (Y) Yes P86	46.		40	
● 49. Rotor Condition (P) Pass P52 Mechanical Inspection RSR P1 50. Bearing Manufacture RSR P1 51. Bearing DE Size 6312 2RS/C3 P14 52. Bearing DE Type Sealed, ball bearing P23 53. DE Bearing Qty. 1 1 54. Bearing ODE Type regular ball bearing P47 55. Bearing ODE Type regular ball bearing P47 56. ODE Bearing Qty. 1 P58 57. Insulated Bearing no no 58. Lubrication Type polyrex em P68 59. Grease Condition (F) Fail P75 Dirty 60. Bearing Retainers (Y) Yes P81 61. Shaft Grounding Device (Y) Yes P81 62. DE Seal (Y) Yes 63. DE Seal Type/Size 64. ODE Seal P96 Worn Worn P96	47.			
Mechanical Inspection 50. Bearing Manufacture RSR P1 51. Bearing DE Size 6312 2RS/C3 P14 52. Bearing DE Type Sealed, ball bearing P23 53. DE Bearing Qty. 1 1 54. Bearing ODE Size 6311 2Z/C3 P43 55. Bearing ODE Type regular ball bearing P47 56. ODE Bearing Qty. 1 P58 57. Insulated Bearing no no 58. Lubrication Type polyrex em P68 59. Grease Condition (F) Fail P75 Dirty 0 (F) Fail P75 0 Dirty (Y) Yes P81 0 Saaring Retainers (Y) Yes P81 0 Aegis. Worn/Replace. Shaft size 2.8750. (Y) Yes P81 0 DE Seal (Y) Yes P86 0 DE Seal Type/Size P96				
50. Bearing Manufacture RSR P1 51. Bearing DE Size 6312 2RS/C3 P14 52. Bearing DE Type Sealed, ball bearing P23 53. DE Bearing Qty. 1 54. Bearing ODE Size 6311 2Z/C3 P43 55. Bearing ODE Type regular ball bearing P47 56. ODE Bearing Qty. 1 P58 57. Insulated Bearing no no 58. Lubrication Type polyrex em P68 • 59. Grease Condition (F) Fail P75 □ Dirty (F) Fail P75 • 61. Shaft Grounding Device (Y) Yes P81 Aegis. Worn/Replace. Shaft size 2.8750. (Y) Yes P81 62. DE Seal (Y) Yes P68 64. ODE Seal P96 P96 Worn P96 P96 P96	4 9.	Rotor Condition	(P) Pass	P52
51. Bearing DE Size 6312 2RS/C3 P14 52. Bearing DE Type Sealed, ball bearing P23 53. DE Bearing Qty. 1 54. Bearing ODE Size 6311 2Z/C3 P43 55. Bearing ODE Type regular ball bearing P47 56. ODE Bearing Qty. 1 P58 57. Insulated Bearing no no 58. Lubrication Type polyrex em P68 59. Grease Condition (F) Fail P75 □ Dirty (Y) Yes P79 61. Shaft Grounding Device (Y) Yes P81 Aegis. Worn/Replace. Shaft size 2.8750. (Y) Yes 62. DE Seal (Y) Yes 63. DE Seal Type/Size (Y) Yes 64. ODE Seal P96 Worn Worn	Mech	anical Inspection		0
52. Bearing DE Type Sealed, ball bearing P23 53. DE Bearing Qty. 1 54. Bearing ODE Size 6311 2Z/C3 P43 55. Bearing ODE Type regular ball bearing P47 56. ODE Bearing Qty. 1 P58 57. Insulated Bearing no no 58. Lubrication Type polyrex em P68 59. Grease Condition (F) Fail P75 □ Dirty 0 (Y) Yes P79 6 1. Shaft Grounding Device (Y) Yes P81 Aegis. Worn/Replace. Shaft size 2.8750. (Y) Yes P81 63. DE Seal Type/Size (Y) Yes P96 64. ODE Seal P96 Worn Worn P96	50.	Bearing Manufacture	RSR	P1
53. DE Bearing Qty. 1 54. Bearing ODE Size 6311 2Z/C3 P43 55. Bearing ODE Type regular ball bearing P47 56. ODE Bearing Qty. 1 P58 57. Insulated Bearing no P68 58. Lubrication Type polyrex em P68 59. Grease Condition (F) Fail P75 □ Dirty P75 P75 60. Bearing Retainers (Y) Yes P81 61. Shaft Grounding Device (Y) Yes P81 Aegis. Worn/Replace. Shaft size 2.8750. (Y) Yes 62. DE Seal (Y) Yes 63. DE Seal Type/Size P96 64. ODE Seal P96 Worn P96	51.	Bearing DE Size	6312 2RS/C3	P14
54. Bearing ODE Size 55. Bearing ODE Type 76. ODE Bearing Qty. 76. ODE Bearing Qty. 77. Insulated Bearing 78. Lubrication Type 79. Grease Condition 79. Dirty 79. OB. Bearing Retainers 79. OB. Shaft Grounding Device 79. Aegis. Worn/Replace. Shaft size 2.8750. 79. OB. Seal 79. ODE Seal	52.	Bearing DE Type	Sealed, ball bearing	P23
55. Bearing ODE Type 56. ODE Bearing Qty. 57. Insulated Bearing 58. Lubrication Type 59. Grease Condition Dirty 60. Bearing Retainers 61. Shaft Grounding Device Aegis. Worn/Replace. Shaft size 2.8750. 62. DE Seal 63. DE Seal Type/Size 64. ODE Seal Worn	53.	DE Bearing Qty.	1	
56. ODE Bearing Qty. 57. Insulated Bearing 58. Lubrication Type 59. Grease Condition Dirty 60. Bearing Retainers 61. Shaft Grounding Device Aegis. Worn/Replace. Shaft size 2.8750. 62. DE Seal 63. DE Seal Type/Size 64. ODE Seal Worn	54.	Bearing ODE Size	6311 2Z/C3	P43
57. Insulated Bearing 58. Lubrication Type 59. Grease Condition Dirty 60. Bearing Retainers 61. Shaft Grounding Device Aegis. Worn/Replace. Shaft size 2.8750. 62. DE Seal 63. DE Seal Type/Size 64. ODE Seal Worn	55.	Bearing ODE Type	regular ball bearing	P47
58. Lubrication Type polyrex em P68 59. Grease Condition (F) Fail P75 Dirty 60. Bearing Retainers (Y) Yes P79 61. Shaft Grounding Device (Y) Yes P81 Aegis. Worn/Replace. Shaft size 2.8750. 62. DE Seal (Y) Yes 63. DE Seal Type/Size 64. ODE Seal Worn	56.	ODE Bearing Qty.	1	P58
 59. Grease Condition Dirty 60. Bearing Retainers 61. Shaft Grounding Device Aegis. Worn/Replace. Shaft size 2.8750. 62. DE Seal 63. DE Seal Type/Size 64. ODE Seal Worn P75 (Y) Yes P79 (Y) Yes P81 (Y) Yes P96 	57.	Insulated Bearing	no	
 Dirty 60. Bearing Retainers 61. Shaft Grounding Device Aegis. Worn/Replace. Shaft size 2.8750. 62. DE Seal 63. DE Seal Type/Size 64. ODE Seal Worn 	58.	Lubrication Type	polyrex em	P68
 60. Bearing Retainers 61. Shaft Grounding Device Aegis. Worn/Replace. Shaft size 2.8750. 62. DE Seal 63. DE Seal Type/Size 64. ODE Seal Worn 	9 59.	Grease Condition	(F) Fail	P75
 61. Shaft Grounding Device Aegis. Worn/Replace. Shaft size 2.8750. 62. DE Seal 63. DE Seal Type/Size 64. ODE Seal Worn (Y) Yes P81 (Y) Yes P81 (Y) Yes P81 (Y) Yes P81 (Y) Yes (Y) Y	-	Dirty		
Aegis. Worn/Replace. Shaft size 2.8750. 62. DE Seal 63. DE Seal Type/Size 64. ODE Seal Worn P96	6 0.	Bearing Retainers	(Y) Yes	P79
 62. DE Seal 63. DE Seal Type/Size 64. ODE Seal Worn 	6 1.	Shaft Grounding Device	(Y) Yes	P81
63. DE Seal Type/Size 64. ODE Seal Worn	-	Aegis. Worn/Replace. Shaft size 2.8750.		
64. ODE Seal Worn P96	6 2.	DE Seal	(Y) Yes	
■ Worn	63.	DE Seal Type/Size		
	64.	ODE Seal		P96
65 ODE Seal Type/Size	-	Worn		
00. OBE 0001 1 ypo/0120	65.	ODE Seal Type/Size		P102
Root Cause of Failure				
66. Component Failure bearings worn			bearings worn	
67. Cause of Failure		•	3. 2	
68. Comments				

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Mach	nine Fit Inspection Report	
70.	Shaft Run Out	
71.	Initial Shaft Run Out	
72.	Final Shaft Run Out	
73.	DE Bearing Shaft Fit	
74.	DE Initial Shaft Bearing Fit Size 1	
75.	DE Initial Shaft Bearing Fit Size 2	
76.	DE Initial Shaft Bearing Fit Size 3	
77.	DE Finial Shaft Bearing Fit Size 1	
78.	DE Finial Shaft Bearing Fit Size 2	
79.	DE Finial Shaft Bearing Fit Size 3	
8 0.	ODE Bearing Shaft Fit	(P) Pass
81.	ODE Initial Shaft Bearing Fit Size 1	2.1657 "
82.	ODE Initial Shaft Bearing Fit Size 2	2.1656 "
83.	ODE Initial Shaft Bearing Fit Size 3	2.1656 "
84.	ODE Finial Shaft Bearing Fit Size 1	
85.	ODE Finial Shaft Bearing Fit Size 2	
86.	ODE Finial 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	
93.	DE Endbell Fit	(P) Pass
94.	DE Initial Endbell Fit Size 1	5.1189 "
95.	DE Initial Endbell Fit Size 2	5.119 "
96.	DE Initial Endbell Fit Size 3	5.1189 "
97.	DE Final Endbell Fit Size 1	
98.	DE Finial Endbell Fit Size 2	
99.	DE Final Endbell Fit Size 3	
100	. DE Endbell Fit Insulated	
101	. DE Endbell Air Seal Fit	
102	. Initial Endbell Air Seal Fit Size	
103	. Finial Endbell Air Seal Fit Size	
104	. ODE Endbell Fit	(P) Pass
105	. ODE Endbell Fit Insulated	
106	. ODE Endbell Air Seal Fit	
107	. ODE Initial Endbell Seal Fit Size	4.7252 "
108	. ODE Finial Endbell Seal Fit Size	
1 09	. Foot Flatness	(P) Pass
110	. Foot Condition	(P) Pass

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111. Flange Condition
 112. Service Technician
 Terrence Holland

t_ 4M_1

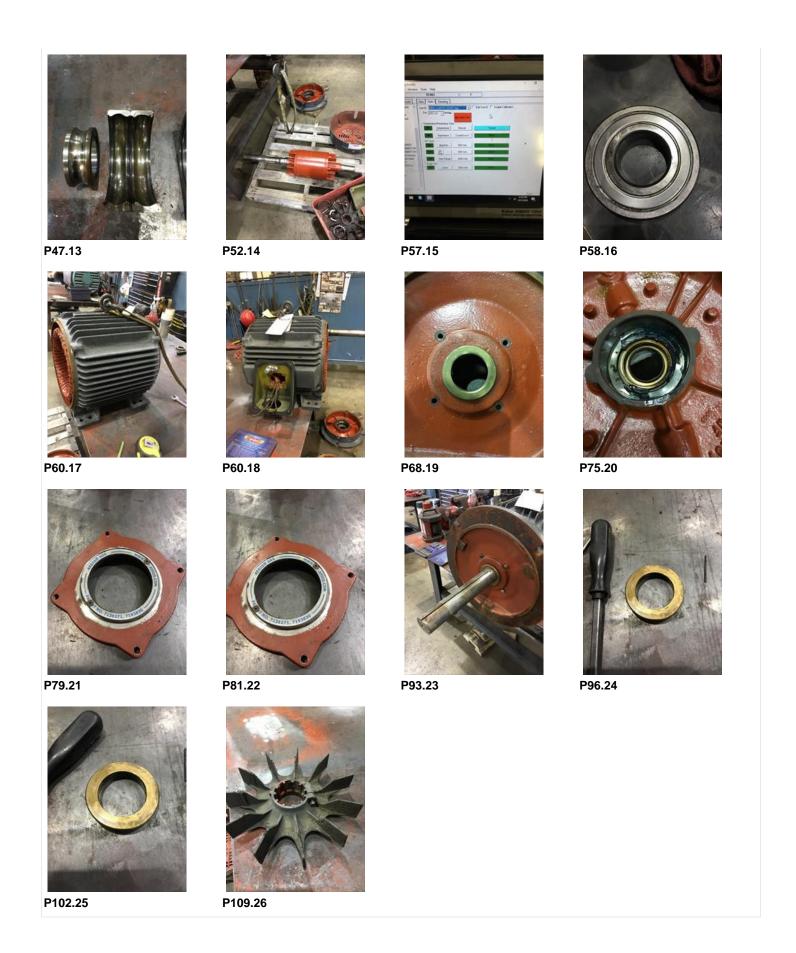
Balancing Report		
113. Balance Type		
114. Balance Operating Speed		
115. Start Left End		
116. Start Right End		
117. Balancing Specification		
118. Finish Left End		
119. Finish Right End		
120. Service Technician		
Assembly and Final Test		
121. Meggar Testing Reading		
122. Surge Test		
123. Hi-Pot		
124. Winding Resistance 1-2		
125. Winding Resistance 2-3		
126. Winding Resistance 1-3		
127. Test Run Voltage Phase A		
128. Test Run Amps A		
129. Test Run Voltage Phase B		
130. Test Run Amps B		
131. Test Run Voltage Phase C		
132. Test Run Amps C		
133. DE Horizontal Vibration Reading		
134. DE Vertical Vibration Reading		
135. DE Axial Vibration Reading		
136. ODE Horizontal Vibration Reading		
137. ODE Vertical Vibration Reading		
138. ODE Axial Vibration Reading		
139. Ambient Temp at start of Test Run		
140. Temp at 5 minutes		
141. Temp at 10 minutes		
142. Temp at 15 minutes		
143. Temp at 20 minutes		
144. Temp at 25 minutes		
145. Temp at 30 minutes		
146. Temp at 35 minutes		
147. Temp at 40 minutes		
148. Temp at 45 minutes		
149. Temp at 50 minutes		
150. Temp at 55 minutes		
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151. Temp at 60 minutes



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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.
- 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.
- 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.