

LR Motor Shop Repairs

Job Number 102760

Prepared for Haynes Pump & Process

101 Murphy Drive Maumelle AR 72113

Table of Contents

Submersible Pump Repair Report - MOTOR SHOP

Submersible Pump Repair Report: 0089

1.0



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

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Submersible Pump Repair Report Haynes Pump & Process

101 Murphy Drive Maumelle, AR 72113

Submersible Pump Repair Report
Location: MOTOR SHOP LR
Serial Number: 0089
Description: 1.5HP GRUNDFOS PUMP

Make:	GRUNDFOS
HP:	1.5 (HP)
Model:	A98537276P113430089
Serial:	0089
RPM:	3450 (RPM)
Hz:	60 (Hz)
GPM:	13.21 (GPM)
Head:	149.6 (Feet)

General

- Job Number
- 2. Report Date
- 3. Customer

Initial Pump Inspection

4. Power Cord Wire Size













- 5. Power Cord # of Conductors
- 6. Power Cord Length
- 7. Power Cord Condtion
- 8. Sensor Cord Wire Size
- 9. Sensor Cord # of Conductors
- 10. Sensor Cord Length
- 11. Sensor Cord Condition
- 12. Sensor Cord for Thermal Protection?
- 13. Sensor Cord for Water Protection

1.4	Bowl Condition
	Impeller Condition
	Number of Wear Rings
	Wear Ring Condition
	Wear Ring Size
	Wear Ring Clearance to Impeller
	Wear Ring Material
	Seal Surfaces Condition
	Seal Type
	Number of Seals
	Seal Material on Rotary Face
	Seal Material on Stationary Seat
	Elastic Component Material
27.	Seal OD
28.	Seal ID
	Seal Sleeve Material
30.	Seal Plate Condition
31.	Water Sensor in Seal Cavity?
32.	Oil Filled Seal Cavity?
33.	Oil Filled Stator?
Initial	Inspection
34.	Number of Leads
35.	Lead Length
36.	Lead Size
37.	Lead Condition
38.	Lead Markings
39.	Lead Size for Oil Filled Stator
40.	Lug Size, Condition, and Type
41.	Overload Required?
42.	Winding RTD's
43.	Winding Rtd's Condition
44.	Shaft Run Out
45.	Does Shaft Turn Freely
46.	Does Shaft Have Visible Damage
47.	Bearing Rtd's
48.	Bearing Rtd's Condition
49.	Contamination
50.	Frame Condition
51.	Fan Condition
52.	Broken or missing components
Initial	Electric Test
53.	Resistance to Ground
54.	Winding Resistance 1-2
	Winding Resistance 2-3
56.	Winding Resistance 1-3
57.	
58.	Hi-Pot

60. Stator Condition fittal Rotor Inspection fittal Rotor Inspection 62. Rotor Type 63. Air Gap <10% Variation 64. Number of Rotor Bars 65. Number of Broken Rotor Bars 66. Growler Tost 67. Rotor Condition Mechanical Inspection 68. Bearing Descript 69. Bearing DE Size 70. Bearing DE Size 71. DE Bearing ODE Size 72. Bearing ODE Size 73. Bearing ODE Size 74. ODE Bearing ODE Size 75. Insulated Bearing 76. Lubrication Type 77. Grease Condition 78. Bearing Rots 79. Shaft Crounding Device 80. DE Seal 81. DE Seal Type/Size 82. ODE Seal 83. ODE Seal Type/Size 84. Component Failure 84. Component Failure 85. Cause of Failure 86. Comments 87. Service Technician Machine Fit Inspection Report 88. Shaft Run Out 90. Final Shaft Run Out 91. DE Bearing Shaft Fit 92. DE Initial Shaft Bearing Fit Size Measure 2 Measure 3 93. DE Final Shaft Bearing Fit Size Measure 2 Measure 3 94. ODE Bearing Shaft Fit 95. ODE Initial Shaft Bearing Fit Size Measure 2 Measure 3 94. ODE Bearing Shaft Fit 95. ODE Initial Shaft Bearing Fit Size Measure 2 Measure 3 94. ODE Bearing Shaft Fit 95. ODE Initial Shaft Bearing Fit Size	60. Stator Condition 61. Failure Location initial Rotor Inspection 62. Rotor Type 63. Air Gap 10% Variation 64. Number of Rotor Bars 65. Number of Rotor Bars 66. Growler Test 67. Rotor Condition Mechanical Inspection 68. Bearing Manufacturer 69. Bearing DE Type 71. DE Bearing OE Type 72. Bearing ODE Size 73. Bearing ODE Size 73. Bearing ODE Size 74. DOE Bearing ODE Type 75. Insulated Bearing 76. Lubrication Type 76. Insulated Bearing 77. Grease Condition 78. Bearing Retainers 79. Shaft Grounding Device 80. DE Seal 81. DE Seal Type/Size 82. ODE Seal 83. ODE Seal Type/Size 84. Component Failure 85. Cause of Failure 86. Comments 87. Service Technician Machine Fit Inspection Report 88. Shaft Run Out 91. DE Bearing Shaft Fit 92. DE Initial Shaft Run Out 93. DE Final Shaft Run Out 94. ODE Bearing Shaft Fit	59	Surge Test		
61. Failure Location Initial Rotor Inspection 62. Rotor Type 63. Air Gap < 10% Variation 64. Number of Brotor Bars 65. Number of Brotor Bars 66. Growler Test 67. Rotor Condition Mechanical Inspection 68. Bearing Manufacturer 69. Bearing Manufacturer 69. Bearing DE Size 70. Bearing DE Type 71. DE Bearing OIV. 72. Bearing ODE Type 73. Bearing ODE Type 74. ODE Bearing OIV. 75. Insulated Bearing 76. Lubrication Type 77. Grease Condition 78. Bearing Retainers 79. Shaft Grounding Device 80. DE Seal 81. DE Seal Type/Size 82. ODE Seal 83. ODE Seal Type/Size 84. Component Failure 84. Component Failure 85. Cause of Failure 86. Comments 87. Service Technician Machine Fit Inspection Report 88. Shaft Run Out 90. Final Shaft Run Out 90. Final Shaft Run Out 91. DE Bearing Shaft Fit 92. DE Initial Shaft Bearing Fit Size Measure 1 Measure 2 Measure 3 94. ODE Bearing Shaft Fit 95. ODE Initial Shaft Bearing Fit Size Measure 1 Measure 2 Measure 3 94. ODE Bearing Shaft Fit 95. ODE Initial Shaft Bearing Fit Size	10. Failure Location Initial Rotor Inspection 22. Rotor Type 33. Air Gap <10% Variation 44. Number of Rotor Bars 55. Number of Broken Rotor Bars 56. Growler Test 67. Rotor Condition Mechanical Inspection 88. Bearing Manufacturer 69. Bearing DE Size 70. Bearing DE Size 71. DE Bearing QIV. 72. Bearing ODE Type 73. ODE Bearing QIV. 74. ODE Bearing QIV. 75. Insulated Bearing 76. Lubrication Type 77. Grease Condition 78. Bearing Retainers 79. Shaft Grounding Device 80. DE Seal 81. DE Seal Type/Size 82. ODE Seal 83. ODE Seal 84. Component Failure 85. Cause of Failure 86. Comments 87. Sarvice Technician Machine Fit Inspection Report 88. Shaft Run Out 91. Die Bearing Shaft Fit 92. DE Initial Shaft Run Out 91. DE Final Shaft Bearing Fit Size Measure 1 Measure 2 Measure 3 Measure 3 Measure 2 Measure 3 Measure 3 Measure 2 Measure 3				
Initial Rotor Inspection 62. Rotor Type 63. Air Gap + 10% Variation 64. Number of Rotor Bars 65. Number of Rotore Rotor Bars 66. Crowler Test 67. Rotor Condition Mechanical Inspection 68. Bearing Manufacturer 69. Bearing Manufacturer 69. Bearing DE Type 70. Bearing DE Type 71. DE Bearing ODE Size 73. Bearing ODE Size 73. Bearing ODE Frype 74. ODE Bearing Gly. 75. Insulated Bearing 76. Lubrication Type 77. Grasse Condition 78. Bearing Rotainers 79. Shaft Grounding Device 80. DE Seal 81. DE Seal Type/Size 82. ODE Seal 83. ODE Seal Type/Size 84. Component Failure 84. Component Failure 84. Component Failure 85. Cause of Failure 86. Comments 87. Service Technician 88. Shaft Run Out 91. DE Bearing Shaft Fit 92. DE Initial Shaft Run Out 91. DE Bearing Shaft Fit 92. DE Initial Shaft Bearing Fit Size Measure 1 Measure 2 Measure 3 94. ODE Bearing Fit Size Measure 1 Measure 2 Measure 3 95. ODE Searing Shaft Fit 96. ODE lential Shaft Bearing Fit Size Measure 1 Measure 2 Measure 3 96. ODE De Initial Shaft Bearing Fit Size Measure 1 Measure 2 Measure 3 97. ODE Initial Shaft Bearing Fit Size Measure 1 Measure 2 Measure 3 98. ODE Searing Shaft Fit 99. ODE lential Shaft Bearing Fit Size	Rotor Inspection Section Secti				
62. Rotor Type 63. Air Gap 10% Variation 64. Number of Broken Rotor Bars 65. Number of Broken Rotor Bars 66. Growler Test 67. Rotor Condition Mechanical Inspection 68. Bearing Manufacturer 69. Bearing DE Size 70. Bearing DE Type 71. DE Bearing QIV. 72. Bearing ODE Type 73. Bearing ODE Type 74. ODE Bearing QIV. 75. Insulated Bearing 76. Lubrication Type 77. Grease Condition 78. Bearing Retainers 79. Shaft Grounding Device 80. DE Seal 81. DE Seal Type/Size 82. ODE Seal 83. ODE Seal Type/Size 84. Component Failure 85. Cause of Failure 86. Comments 87. Service Technician Machine Fit Inspection Report 88. Shaft Run Out 90. Final Shaft Run Out 91. DE Bearing Shaft Fit 92. DE Initial Shaft Bearing Fit Size Measure 1 Measure 2 Measure 3 94. ODE Bearing Shaft Fit 95. ODE Initial Shaft Bearing Fit Size Measure 1 Measure 2 Measure 3 94. ODE Bearing Shaft Fit 95. ODE Initial Shaft Bearing Fit Size	62. Rotor Type 63. Air Gap <10% Variation 64. Number of Rotor Bars 65. Number of Broken Rotor Bars 66. Growler Test 67. Rotor Condition Mechanical Inspection 68. Bearing Manufacturer 69. Bearing DE Size 70. Bearing DE Type 71. DE Bearing Olty. 72. Bearing ODE Type 74. ODE Baaring Oby. 75. Insulated Bearing Olty. 76. Insulated Bearing Olty. 77. Grease Condition 78. Bearing Ober Type 79. Grease Condition 79. Shaft Grounding Device 80. DE Seal 81. DE Seal Type/Size 82. ODE Seal 83. ODE Seal Type/Size 84. Component Failure 85. Cause of Failure 86. Comments 87. Service Technician Machine Fit Inspection Report 88. Shaft Run Out 99. Final Shaft Bearing Fit Size Measure 1 Measure 2 Measure 3 94. ODE Bearing Shaft Fit 95. ODE Initial Shaft Bearing Fit Size Measure 1 Measure 2 Measure 3 94. ODE Bearing Shaft Fit 95. ODE Initial Shaft Bearing Fit Size Measure 1 Measure 2 Measure 3				
63. Air Gap <10% Variation 64. Number of Rotor Bars 65. Number of Broten Rotor Bars 66. Growler Test 67. Rotor Condition Mechanical Inspection 68. Bearing Manulacturer 69. Bearing DE Size 70. Bearing DE Type 71. DE Bearing DE Type 71. DE Bearing Oly. 72. Bearing ODE Size 73. Bearing ODE Size 74. ODE Bearing Oly. 75. Insulated Bearing 76. Lubrication Type 77. Grease Condition 78. Bearing Retainers 79. Shaft Grounding Device 80. DE Seal 81. DE Seal Type/Size 82. ODE Seal 83. ODE Seal Type/Size 84. Component Failure 85. Cause of Failure 86. Comments 87. Service Technician Machine Fit Inspection Report 88. Shaft Run Out 90. Final Shaft Run Out 90. Final Shaft Run Out 91. DE Bearing Shaft Fit 92. DE Initial Shaft Bearing Fit Size Measure 1 Measure 2 Measure 3 94. ODE Bearing Shaft Fit 95. ODE Initial Shaft Bearing Fit Size Measure 1 Measure 2 Measure 3 94. ODE Bearing Shaft Fit 95. ODE Initial Shaft Bearing Fit Size Measure 1 Measure 2 Measure 3	63. Air Gap <10% Variation 64. Number of Broken Rotor Bars 65. Number of Broken Rotor Bars 66. Growler Test 67. Rotor Condition Mechanical Inspection 68. Bearing Manufacturer 69. Bearing DE Size 70. Bearing DE Type 71. DE Bearing OIY. 72. Bearing ODE Size 73. Bearing ODE Size 74. ODE Bearing QIV. 75. Insulated Bearing QIV. 75. Insulated Bearing QIV. 76. Lubrication Type 77. Grease Condition 78. Bearing Retainers 79. Shaft Grounding Device 80. DE Seal 81. DE Seal Type/Size 82. ODE Seal 83. ODE Seal Type/Size 84. Component Failure 85. Cause of Failure 86. Comments 87. Service Technician Machine Fit Inspection Report 88. Shaft Run Out 99. Initial Shaft Bearing Fit Size Measure 1 Measure 2 Measure 3 93. DE Final Shaft Run Out 91. DE Bearing Shaft Fit 94. ODE Bearing Shaft Fit 95. ODE Initial Shaft Bearing Fit Size Measure 1 Measure 2 Measure 3 94. ODE Bearing Shaft Fit 95. ODE Initial Shaft Bearing Fit Size Measure 1 Measure 2 Measure 3		-		
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65. Number of Broken Rotor Bars 66. Growler Test 67. Rotor Condition Mechanical Inspection 68. Bearing Manufacturer 69. Bearing DE Size 70. Bearing DE Type 71. DE Bearing DE Type 71. DE Bearing ODE Type 72. Bearing ODE Size 73. Bearing ODE Type 74. ODE Bearing ODE Type 75. Insulated Bearing 76. Lubrication Type 77. Grease Condition 78. Bearing Retainers 79. Shaft Grounding Device 80. DE Seal 81. DE Seal Type/Size 82. ODE Seal 83. ODE Seal Sal Type/Size 84. Component Failure 85. Cause of Failure 86. Comments 87. Service Technician Machine Fit Inspection Report 88. Shaft Run Out 90. Final Shaft Run Out 91. DE Bearing Shaft Fit 92. DE Initial Shaft Bearing Fit Size Measure 1 Measure 2 Measure 3 93. DE Final Shaft Bearing Fit Size Measure 1 Measure 2 Measure 3 94. ODE Bearing Shaft Fit 95. ODE Initial Shaft Bearing Fit Size	66. Growler Test 67. Rotor Condition Mechanical Inspection 68. Bearing Manufacturer 68. Bearing DE Size 70. Bearing DE Type 71. DE Bearing ODE Type 72. Bearing ODE Size 73. Bearing ODE Size 74. ODE Bearing Oty. 75. Insulated Bearing City. 76. Lubrication Type 77. Grease Condition 78. Bearing Retainers 79. Shaft Crounding Device 80. DE Seal 81. DE Seal Type/Size 82. ODE Seal 83. ODE Seal Type/Size 84. Component Failure 85. Cause of Failure 86. Comments 87. Service Technician Machiner Fit Inspection Report 88. Shaft Run Out 90. Final Shaft Run Out 91. DE Dearing Shaft Fit 92. DE Finial Shaft Bearing Fit Size Measure 1 Measure 2 Measure 3				
66. Growler Test 67. Rotor Condition Mechanical Inspection 68. Bearing Manufacturer 69. Bearing DE Type 71. DE Bearing DE Type 71. DE Bearing ODE Size 73. Bearing ODE Size 73. Bearing ODE Size 74. ODE Bearing Gty, 75. Insulated Bearing 76. Lubrication Type 77. Grease Condition 78. Bearing Retainers 79. Shaft Grounding Device 80. DE Seal 81. DE Seal Type/Size 82. ODE Seal 83. ODE Seal Type/Size 84. Component Failure 85. Cause of Failure 86. Comments 87. Service Technician Machine Fit Inspection Report 88. Shaft Run Out 90. Final Shaft Run Out 91. DE Bearing Shaft Fit 92. DE Initial Shaft Bearing Fit Size Measure 1 Measure 2 Measure 3 93. DE Final Shaft Bearing Fit Size Measure 1 Measure 2 Measure 3 94. ODE Bearing Shaft Fit 95. ODE Initial Shaft Bearing Fit Size	66. Growler Test 67. Rotor Condition Mechanical Inspection 68. Bearing Manufacturer 69. Bearing DE Size 70. Bearing DE Type 71. DE Bearing QUy. 72. Bearing ODE Size 73. Bearing ODE Size 74. ODE Bearing GUy. 75. Insulated Bearing 76. Lubrication Type 77. Grease Condition 78. Bearing Retainers 79. Shaft Grounding Device 80. DE Seal 81. DE Seal Type/Size 82. ODE Seal 83. ODE Seal Type/Size 84. Component Failure 85. Cause of Failure 86. Comments 87. Service Technician Machine Fit Inspection Report 88. Shaft Run Out 90. Final Shaft Run Out 91. DE Bearing Shaft Fit 92. DE Initial Shaft Bearing Fit Size Measure 1 Measure 2 Measure 3 94. ODE Bearing Shaft Fit 95. ODE Initial Shaft Bearing Fit Size Measure 1 Measure 2 Measure 3 94. ODE Bearing Shaft Fit 95. ODE Initial Shaft Bearing Fit Size				
67. Rotor Condition Mechanical Inspection 68. Bearing Manufacturer 69. Bearing DE Size 70. Bearing DE Type 71. DE Bearing QIV. 72. Bearing ODE Size 73. Bearing ODE Size 74. ODE Bearing QIV. 75. Insulated Bearing 76. Lubrication Type 77. Grease Condition 78. Bearing Retainers 79. Shaft Grounding Device 80. DE Seal 81. DE Seal Type/Size 82. ODE Seal 83. ODE Seal Type/Size 84. Component Failure 84. Component Failure 85. Cause of Failure 86. Comments 87. Service Technician Machine Fit Inspection Report 88. Shaft Run Out 99. Final Shaft Run Out 99. Final Shaft Bearing Fit Size Measure 1 Measure 2 Measure 3 93. DE Final Shaft Bearing Fit Size Measure 1 Measure 2 Measure 3 94. ODE Bearing Shaft Fit 95. ODE Initial Shaft Bearing Fit Size	Mechanical Inspection 88. Bearing Manufacturer 89. Bearing DE Size 70. Bearing DE Type 71. DE Bearing ODE Type 71. DE Bearing ODE Type 72. Bearing ODE Type 73. Bearing ODE Type 74. ODE Bearing QIV. 75. Insulated Bearing QIV. 76. Lubrication Type 77. Grease Condition 78. Bearing Retaitenes 79. Shaft Grounding Device 80. DE Seal 81. DE Seal Type/Size 82. ODE Seal 83. ODE Seal Type/Size 84. Component Failure 84. Component Failure 85. Cause of Failure 86. Comments 87. Service Technician Machiner Fit Inspection Report 88. Shaft Run Out 99. Initial Shaft Run Out 90. Final Shaft Run Out 91. DE Bearing Shaft Fit 92. DE Initial Shaft Bearing Fit Size Measure 1 Measure 2 Measure 3 94. ODE Bearing Shaft Fit 95. ODE Bearing Shaft Fit 96. ODE Bearing Shaft Fit 96. ODE Bearing Shaft Fit 97. ODE Bearing Shaft Fit 98. ODE Seal Shaft Fit Shaft Bearing Fit Size Measure 1 Measure 2 Measure 3				
Mechanical Inspection 8. Bearing Manufacturer 69. Bearing DE Size 70. Bearing DE Type 71. DE Bearing Qty. 72. Bearing ODE Size 73. Bearing ODE Type 74. ODE Bearing Qty. 75. Insulated Bearing 76. Lubrication Type 77. Grease Condition 78. Bearing Retainers 79. Shaft Grounding Device 80. DE Seal 81. DE Seal Type/Size 82. ODE Seal 83. ODE Seal Type/Size 84. Component Failure 84. Component Failure 85. Cause of Failure 86. Comments 87. Service Technician Machine Fit Inspection Report 88. Shaft Run Out 90. Final Shaft Run Out 91. DE Bearing Shaft Fit 92. DE Initial Shaft Bearing Fit Size Measure 1 Measure 2 Measure 3 94. ODE Bearing Shaft Fit 95. ODE Initial Shaft Bearing Fit Size Measure 1 Measure 2 Measure 3 94. ODE Bearing Shaft Fit 95. ODE Initial Shaft Bearing Fit Size	Measure I Inspection 68. Bearing Manufacturer 69. Bearing DE Size 70. Bearing DE Type 71. DE Bearing ODE Size 73. Bearing ODE Size 74. ODE Bearing ODE Type 76. Lubrication Type 77. Grease Condition 78. Bearing Retainers 79. Shaft Grounding Device 80. DE Seal 81. DE Seal Type/Size 82. ODE Seal Type/Size 83. ODE Seal Type/Size 84. Component Failure 85. Cause of Failure 86. Comments 87. Service Technician Machine Fit Inspection Report 88. Shaft Run Out 89. Initial Shaft Run Out 99. Final Shaft Run Out 99. DE Initial Shaft Bearing Fit Size Measure 1 Measure 2 Measure 3				
68. Bearing Manufacturer 69. Bearing DE Size 70. Bearing DE Type 71. DE Bearing QIV. 72. Bearing ODE Size 73. Bearing ODE Size 74. ODE Bearing QIV. 74. ODE Bearing QIV. 75. Insulated Bearing 76. Lubrication Type 77. Grease Condition 78. Bearing Retainers 79. Shaft Grounding Device 80. DE Seal 81. DE Seal Type/Size 82. ODE Seal 83. ODE Seal 84. Component Failure 84. Component Failure 85. Cause of Failure 86. Comments 87. Service Technician Machine Fit Inspection Report 88. Shaft Run Out 90. Final Shaft Run Out 91. DE Bearing Shaft Fit 92. DE Initial Shaft Bearing Fit Size Measure 1 Measure 2 Measure 3 93. DE Final Shaft Bearing Fit Size Measure 1 Measure 2 Measure 3 94. ODE Bearing Shaft Fit 95. ODE Initial Shaft Bearing Fit Size	68. Bearing Manufacturer 69. Bearing DE Type 71. DE Bearing QUY. 72. Bearing ODE Size 73. Bearing ODE Type 74. ODE Bearing QUY. 75. Insulated Bearing 76. Lubrication Type 77. Grease Condition 78. Bearing Retainers 79. Shaft Grounding Device 80. DE Seal 81. DE Seal Type/Size 82. ODE Seal Type/Size 83. ODE Seal Type/Size 84. Component Failure 84. Component Failure 85. Cause of Failure 86. Comments 87. Service Technician Machine Fit Inspection Report 88. Shaft Run Out 99. Initial Shaft Run Out 99. Final Shaft Run Out 99. Final Shaft Run Out 99. DE Initial Shaft Bearing Fit Size Measure 1 Measure 2 Measure 3				
69. Bearing DE Size 70. Bearing DE Type 71. DE Bearing Qty. 72. Bearing ODE Size 73. Bearing ODE Size 73. Bearing ODE Type 74. ODE Bearing Qty. 75. Insulated Bearing 76. Lubrication Type 77. Grease Condition 78. Bearing Retainers 79. Shaft Grounding Device 80. DE Seal 81. DE Seal Type/Size 82. ODE Seal 83. ODE Seal Type/Size 84. ODE Seal 85. Cause of Failure 86. Component Failure 86. Comments 87. Service Technician Machine Fit Inspection Report 88. Shaft Run Out 90. Final Shaft Run Out 90. Final Shaft Run Out 91. DE Bearing Shaft Fit 92. DE Initial Shaft Bearing Fit Size Measure 1 Measure 2 Measure 3 94. ODE Bearing Shaft Fit 95. ODE Initial Shaft Fit Slaft Bearing Fit Size	69. Bearing DE Size 70. Bearing DE Type 71. DE Bearing ODE Size 72. Bearing ODE Type 73. Bearing ODE Type 74. ODE Bearing Qtv. 75. Insulated Bearing Qtv. 76. Lubrication Type 77. Grease Condition 78. Bearing Retainers 79. Shaft Grounding Device 80. DE Seal 81. DE Seal Type/Size 82. ODE Seal Type/Size 83. ODE Seal Type/Size 842. Component Failure 843. Comments 854. Comments 865. Cause of Failure 866. Comments 877. Service Technician Machine Fit Inspection Report 888. Shaft Run Out 900. Final Shaft Run Out 910. DE Bearing Shaft Fit 911. DE Bearing Shaft Fit 912. DE Initial Shaft Bearing Fit Size Measure 1 Measure 2 Measure 3 Measure 3 Measure 3 Measur				
70. Bearing DE Type 71. DE Bearing QIy. 72. Bearing ODE Size 73. Bearing ODE Type 74. ODE Bearing Qty. 75. Insulated Bearing 76. Lubrication Type 77. Grease Condition 78. Bearing Retainers 79. Shaft Grounding Device 80. DE Seal 81. DE Seal Type/Size 82. ODE Seal 83. ODE Seal Type/Size 84. ODE Seal Type/Size 85. Cause of Failure 86. Compenent Failure 86. Comments 87. Service Technician Machine Fit Inspection Report 88. Shaft Run Out 99. Final Shaft Run Out 99. Final Shaft Run Out 99. Final Shaft Bearing Fit Size Measure 1 Measure 2 Measure 3 93. DE Final Shaft Bearing Fit Size Measure 1 Measure 2 Measure 3 94. ODE Bearing Shaft Fit 95. ODE Initial Shaft Faif Issize for the Shaft Shaft Shaft Shaft Fit Shaft Shaft Fit Shaft Shaft Fit Shaft Shaft Shaft Fit Shaft Sh	71. DE Bearing DE Type 17. DE Bearing OLP. 17. DE Bearing OLP. 17. DE Bearing ODE Type 17. Grease Condition 17. Grease Condition 18. Bearing Retainers 19. Shaft Grounding Device 18. DE Seal 18. DE Seal Type/Size 18. DE Seal Type/Size 18. ODE Seal 18. DE Seal Type/Size 18. ODE Seal 18. DE Seal Type/Size 18. Oornent Failure 18. Component Failure 18. Component Failure 18. Comments 18. De Seal Type/Size 19. De Searing Shaft Fit 19. De De Searing Shaft Fit				
71. DE Bearing QIv. 72. Bearing ODE Size 73. Bearing ODE Type 74. ODE Bearing QIv. 75. Insulated Bearing 76. Lubrication Type 77. Grease Condition 78. Bearing Retainers 79. Shaft Grounding Device 80. DE Seal 81. DE Seal Type/Size 82. ODE Seal 83. ODE Seal Type/Size 84. Component Failure 84. Component Failure 85. Cause of Failure 86. Comments 87. Service Technician Machine Fit Inspection Report 88. Shaft Run Out 89. Initial Shaft Run Out 90. Final Shaft Run Out 91. DE Bearing Shaft Fit 92. DE Initial Shaft Bearing Fit Size Measure 1 Measure 2 Measure 3 94. ODE Bearing Shaft Fit 95. ODE Initial Shaft Bearing Fit Size	71. DE Bearing OUP. 72. Bearing ODE Size 73. Bearing ODE Type 74. ODE Bearing QIV. 75. Insulated Bearing 76. Lubrication Type 77. Grease Condition 78. Bearing Retainers 79. Shaft Grounding Device 80. DE Seal 81. DE Seal Type/Size 82. ODE Seal 83. ODE Seal Type/Size 84. Component Failure 85. Cause of Failure 86. Comments 87. Service Technician Machimetria Fit Inspection Report 88. Shaft Run Out 99. Final Shaft Bearing Fit Size Measure 1 Measure 2 Measure 3 Ples Final Shaft Bearing Fit Size Measure 1 Measure 2 Measure 3 Ples Final Shaft Fit 90. ODE Bearing Shaft Fit 91. ODE Bearing Shaft Fit 92. ODE Bearing Shaft Fit 93. ODE Bearing Shaft Fit 94. ODE Bearing Shaft Fit				
72. Bearing ODE Size 73. Bearing QDE Type 74. ODE Bearing Qty. 75. Insulated Bearing 76. Lubrication Type 77. Grease Condition 78. Bearing Retainers 79. Shaft Grounding Device 80. DE Seal 81. DE Seal Type/Size 82. ODE Seal 83. ODE Seal Type/Size 84. Component Failure 85. Cause of Failure 86. Comments 87. Service Technician Machine Fit Inspection Report 88. Shaft Run Out 90. Final Shaft Run Out 91. DE Bearing Shaft Fit 92. DE Initial Shaft Bearing Fit Size Measure 1 Measure 2 Measure 3 94. ODE Bearing Shaft Fit 95. ODE Initial Shaft Bearing Fit Size	73. Bearing ODE Size 74. ODE Bearing Qty. 75. Insulated Bearing 76. Lubrication Type 77. Grease Condition 78. Bearing Retainers 79. Shaft Grounding Device 80. DE Seal 81. DE Seal Type/Size 82. ODE Seal 83. ODE Seal Type/Size 84. Component Failure 84. Component Failure 85. Cause of Failure 86. Comments 87. Service Technician Machimer Fit Inspection Report 88. Shaft Run Out 90. Final Shaft Run Out 91. DE Bearing Shaft Fit 92. DE Initial Shaft Bearing Fit Size Measure 1 Measure 1 Measure 2 Measure 3				
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95. ODE Initial Shaft Bearing Fit Size	95. ODE Initial Shaft Bearing Fit Size		INICASUIC I	IVICASUIC Z	IVICASUIC 3
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IVIEASULE I IVIEASULE Z IVIEASULE 3				Measure 2	Measure 3

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96.	ODE Final Shaft Bearing Fit Size		
	Measure 1	Measure 2	Measure 3
97.	DE Air Seal Shaft Fit		
98.	DE Air Seal Shaft Size		
	Initial	Final	
00	ODE Air Seal Shaft Fit		
	ODE Air Seal Shaft Size		
100.		Final	
	Initial	Final	
101.	DE Endbell Fit		
102.	DE Initial Endbell Fit Size		
	Measure 1	Measure 2	Measure 3
103.	DE Final Endbell Fit Size		
	Measure 1	Measure 2	Measure 3
104	DE Endbell Fit Insulated		
_	DE Endbell Air Seal Fit		
	DE Endbell Air Seal Fit Size		
	Initial	Final	
		1 110	
107.	ODE Endbell Fit		
108.	ODE Initial Endbell Fit Size		
	Measure 1	Measure 2	Measure 3
100	ODE Final Endbell Fit Size		
109.	Measure 1	Measure 2	Measure 3
	weasure i	ivieasure 2	ivieasure 3
110.	ODE Endbell Fit Insulated		
111.	ODE Endbell Air Seal Fit		
112.	ODE Endbell Air Seal Fit Size		
	Initial	Final	
440	E . E .		
	Foot Flatness Foot Condition		
	Flange Condition		
	Service Technician		
	cing Report		
	Balance Type		
	Balance Operating Speed		
	Start Left End		
	Otali Loli Lila		
120.	Start Right End		
121.	Start Right End		
121. 122.	Start Right End Balancing Specification		

Asser	Assembly and Final Test				
	Rotor and Impeller Balanced				
	Stator Housing Refilled with Oil (if req	uired)			
	Stator Pressure Test	,			
128.	Seal Cavity Pressure Test				
	Time Under Pressure				
130.	Overload Continuity				
131.	Water Sensor Open?				
132.	Meggar Testing Reading				
133.	Surge Test				
134.	Hi-Pot				
135.	Winding Resistance				
	1-2	2-3	3-1		
	Test Run				
137.	Test Run Voltage				
	Phase A	Phase B	Phase C		
400	Took Divin Coursent				
138.	Test Run Current	Discoo D	Diagram C		
	Phase A	Phase B	Phase C		
139.	DE Vibration Reading				
	Horizontal	Vertical	Axial		
140.	ODE Vibration Reading				
	Horizontal	Vertical	Axial		
4.44	Auchieut Teure et et et et Teet Deur				
	Ambient Temp at start of Test Run				
	Temp at 10 minutes				
	Temp at 10 minutes Temp at 15 minutes				
	Temp at 20 minutes				
	Temp at 25 minutes				
	Temp at 30 minutes				
	Temp at 35 minutes				
	Temp at 40 minutes				
	Temp at 45 minutes				
	Temp at 50 minutes				
	Temp at 55 minutes				
	Temp at 60 minutes				
	Motor Paint				
	Service Technician				

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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 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.