

# EVERY DAY SINCE 1946

LR Motor Shop Repairs

## **Job Number 101932**

Prepared for WREN INDUSTRIES

5157 HWY 64 EAST POTTSVILLE AR 72758

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AC Inspection as Found - MOTOR SHOP LR



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

10/17/2023

FolderID: 101932 FormID: 18064798

#### **AC Inspection as Found**

WREN INDUSTRIES 5157 HWY 64 EAST POTTSVILLE, AR 72758

#### AC Inspection - Rev. 2

Location:	MOTOR SHOP LR
Serial Number:	1056181129

Description:10HP WEG 3600RPM 213/5TC

Hi-Speed Job Number:	101932
Manufacturer:	WEG
Product Number:	99883246
Serial Number:	1056181129
HP/kW:	10 (HP)
RPM:	3530 (RPM)
Frame:	213/5TC
Voltage:	230 / 460
Current:	23.0/11.5
Phase:	Three
Hz:	60 (Hz)
Service Factor:	1.15
Enclosure:	TEFC
J-box Included:	Complete
Coupling/Sheave:	None
Bearing RTDs:	No
Stator RTDs:	No
Repair Stage:	Final
Heaters:	No
Winding Type :	Random Wound
Bearing Type:	Rolling Element

#### Priorities Found: 🔵 2 - High

h 🛛 🔵 7 - Good

#### **Overall Condition**

- 1. Report Date
- 2. Nameplate Picture



3. Photos of all six sides of the machine.































4	Describe the Overall Condition of the Equipment on Received			
4.	Describe the Overall Condition of the Equipment as Received			
	Clean			
Initia	Mechanical/Electrical			
<b>.</b> 5.	Does Shaft Turn Freely?	(Yes) Yes		
6.	Does Shaft Have Visible Damage?	(No) No		
• 7.	Assembled Shaft Runout	0 Inches		
8.	Assembled Shaft End Play	0 inches		
9.	Air Gap Variation <10%	n/a		
10.	Lead Condition	(P) Pass		
11.	Lead Length	12 Inches		
12.	Lead Numbers	1-9		
13.	Frame Condition	good		
14.	Fan Condition	(P) Pass		
15.	Broken or Missing Components	none		
Initia	Initial Electrical Inspection			

#### 2000 Megohms

#### 16. Insulation Resistance/Megger



17.	Winding Resistance		
	1-2	1-3	2-3
	1.39	1.39	1.39
18.	Perform Surge Test		(P) Pass
19.	Number of Stator Slots		36
20.	Stator Condition		good
21.	Stator Thermistors/Ohms		none
22.	Stator Overloads/Ohms		none
Mecha	anical Inspection		
23.	Drive End Bearing Brand		n/a
24.	Drive End Bearing Number-		6309
25.	Drive End Bearing Qty.		1
26.	Drive End Bearing Type		(Ball) Ball Bearing
27.	Drive End Lubrication Type		(Grease) Grease Lubricated
28.	Drive End Bearing Insulation or Grounding Device?		none
29.	Drive End Wavy Washer/Snap-Ring Other Retention Device?		none
30.	Drive End Bearing Condition		normal wear
31.	Opposite Drive End Bearing Brand		n/a
32.	Opposite Drive End Bearing Number-		6206
33.	Opposite Drive End Bearing Qty.		1
34.	Opposite Drive End Bearing Type		(Ball) Ball Bearing
35.	Opposite Drive End Lubrication Type		(Grease) Grease Lubricated
36.	Opposite Drive End Bearing Insulation	or Grounding Device?	none
37.	Opposite Drive End Wavy Washer/Sna	ap-Ring Other Retention Device?	wavy washer
38.	Opposite Drive End Bearing Condition		normal wear
39.	Drive End Seal		none
40.	Opposite Drive End Seal		none
Rotor	Inspection		
41.	Rotor Type/Material		(Squirrel Aluminum) Squirrel Cage Aluminum Die Cast
42.	Growler Test		(Pass) Pass
43.	Number of Rotor Bars		28
44.	Rotor Condition		good

40.	List the Parts needed for the Repair Below 6309, 6206			
46.	Signature of Technician that Disassembled Motor		I	David Maclin
	$\mathcal{N}$	7		
lecha	anical Fits- Rotor			
47.	Shaft Runout			0 inches
48.	Rotor Runout			
	Drive End Bearing Fit	Rotor Body	Opposite Drive Er	d Bearing
	0	0	0	
49.	Coupling Fit Closest to Bearing Ho	using		
	0 Degrees	90 Degrees	120 Degrees	
	1.375	1.375	1.375	
50.	Coupling Fit Closest to the end of t	he Shaft		
	0 Degrees	60 Degrees	120 Degrees	
	1.375	1.375	1.375	
51.	Drive End Bearing Shaft Fit			
	0 Degrees	60 Degrees	120 Degrees	
	1.7718	1.7717	1.7717	
52.	Drive End Bearing Shaft Fit Condition	ion		(P) Pass
53.	3. Opposite Drive End Bearing Shaft Fit			
	0 Degrees	60 Degrees	120 Degrees	
	1.1815	1.1814	1.1814	
	Opposite Drive End Bearing Shaft	Fit Condition		(P) Pass
55.	Shaft Air Seal Fits			
	Drive End Air Seal	Opposite Drive End Air Seal		
	ok	ok		
	anical Fits- Bearing Housings			
56.	Drive End - Endbell Bearing Fit			
	0 Degrees	60 Degrees	120 Degrees	
	3.9384	3.9385	3.9387	
57.	Drive End - Endbell Bearing Fit Con			(F) Fail
58.	Opposite Drive End - Endbell Bear	ing Fit		
	0 Degrees	60 Degrees	120 Degrees	
	2.4415	2.4414	2.4414	
59.	Opposite Drive End - Endbell Bear	ing Fit Condition		(P) Pass
60.	Bearing Cap Condition			
	Drive End Bearing Cap	Opposite Drive End Bearing Cap		
	ok	n/a		
61.	End Bell Air Seal Fits			
	Drive End Air Seal	Opposite Drive End Air Seal		
	ok	ok		
~~	List Machine Work Needed Below			

63.	Technician		David Maclin
	/		
		$\langle \neg \rangle$	
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	nic Balance Report		
64.	Rotor Weight and Balance Grade		
	Rotor Weight	Balance Grade	
65.	Initial Balance Readings		
	Drive End	Opposite Drive End	
66.	Final Balance Readings		
	Drive End	Opposite Drive End	
67	Technician		
Rewin			
	Core Test Results - Watts loss per Po	aund	
00.	Pre-Burnout	Post Burnout	
	FTE-Bulliout	F USI Bulliout	
69.	Core Hot Spot Test		
	Pre-Burnout	Post-Burnout	
	Post Rewind Electrical Test- Insulatio	n Resistance	
	Post Rewind Polarization Index		
72.	Post Rewind Winding Resistance	4.0	0.0
	1-2	1-3	2-3
73.	Post Rewind Surge Test		
74.	Post Rewind Hi-Pot		
75.	Technician		
Root	Cause of Failure		
76.	Failure locations		
77.	Root cause of failure		
Mech	anical Fits- Rotor - Post Repair		
	Shaft Runout Post Repair		
79.	Rotor Runout Post Repair		
	Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing
80.	Coupling Fit Closest to Bearing House	ng Post Repair	
	0 Degrees	90 Degrees	120 Degrees
04	Coupling Eit Classof to the and of the	Shaft Doot Dopoin	
01.	Coupling Fit Closest to the end of the		120 Degrees
	0 Degrees	60 Degrees	120 Degrees
82.	Drive End Bearing Shaft Fit Post Rep	air	
	0 Degrees	60 Degrees	120 Degrees

0 Degrees     60 Degrees     120 Degrees       84. Shaft Air Seal Fits Post Repair     Opposite Drive End Air Seal       97. Opposite Drive End Air Seal     0 Degrees       86. Drive End - Endbell Bearing Fit Post Repair     0 Degrees       87. Opposite Drive End - Endbell Bearing Fit Post Repair     0 Degrees       98. Bearing Cap Condition Post Repair     0 Degrees       97. Opposite Drive End - Endbell Bearing Fit Post Repair     0 Degrees       98. Bearing Cap Condition Post Repair     0 Degrees       99. End Bell Air Seal Fits Post Repair     0 Deprees       90. End Bell Air Seal Fits Post Repair     0 Doposite Drive End Bearing Cap       90. End Bell Air Seal Fits Post Repair     0 Doposite Drive End Air Seal       90. End Bell Air Seal Fits Post Repair     0 Doposite Drive End Air Seal       90. End Bell Repair Sign-off     Assembly       84. Sasembled Shaft Endplay     94       95. Final Insulation Resistance Test     94       94. Assembled Shaft Endplay     95       95. Assembled Shaft Endplay     95       96. Test Run Amperage     Amps       Amps     Amps       98. Drive End Vibration Readings - Inches Per Second     4xial       99. Oprosite Drive End Bearing Temps - Fahrenheit     5 Minutes       100. Ambient Tomperature - Fahrenheit     10 Minutes       910. Drive End Bearing Temps - Fahrenheit     <	83	Opposite Drive End Bearing Shaft Fit Post Repair			
84. Shaft Air Seal Fits Post Repair         Drive End Air Seal       Opposite Drive End Air Seal         85. Shaft Repair Sign-off         Mechanical Fits-Bearing Housings - Post Repair         86. Drive End - Endbell Bearing Fit Post Repair         0 Degrees       60 Degrees         87. Opposite Drive End - Endbell Bearing Fit Post Repair         0 Degrees       60 Degrees         88. Bearing Cap Condition Post Repair         Drive End Bearing Cap       Opposite Drive End Bearing Cap         88. Bearing Cap Condition Post Repair         Drive End Air Seal       Opposite Drive End Bearing Cap         89. End Bell Air Seal Fits Post Repair         Drive End Air Seal       Opposite Drive End Air Seal         90. End Bell Repair Sign-off         Assembly       91. QC Check All Parts for Cleanliness Prior to Assembly         91. QC Check All Parts for Cleanliness Prior to assembly         92. Photograph All Major Components prior to assembly         93. Final Insulation Resistance Test         94. Assembled Shaft Runout         95. Assembled Shaft Runout         96. Test Run Amperage         Amps       Amps         Amps       Amps         Amps       Anial         99. Opposite Drive End Vibration Readings - Inches Per Second         H	00.		·	120 Degrees	
Drive End Air Seal     Opposite Drive End Air Seal       86.     Shaft Repair Sign-off       Mechanical Fits-Bearing Housings - Post Repair       86.     Drive End - Endbell Bearing Fit Post Repair       90.     Degrees     60 Degrees       87.     Opposite Drive End - Endbell Bearing Fit Post Repair       0     Degrees     60 Degrees       88.     Bearing Cap Condition Post Repair       Drive End Bearing Cap     Opposite Drive End Bearing Cap       89.     End Bell Air Seal Fits Post Repair       Drive End Air Seal     Opposite Drive End Air Seal       90.     End Bell Repair Sign-off       Assembly     91.       91.     Check All Parts for Cleanliness Prior to Assembly       92.     Photograph All Major Components prior to assembly       93.     Final Insulation Resistance Test       94.     Assembled Shaft Endplay       95.     Assembled Shaft Endplay       96.     Test Run Voltage       Volts     Volts       97.     Test Run Amperage       Armps     Amps       Armps     Amps       98.     Drive End Vibration Readings - Inches Per Second       Horizontal     Vertical       98.     Opposite Drivate Readings - Inches Per Second       Horizontal     Vertical		0 Degrees	60 Degrees	120 Degrees	
Drive End Air Seal     Opposite Drive End Air Seal       86.     Shaft Repair Sign-off       Mechanical Fits-Bearing Housings - Post Repair       86.     Drive End - Endbell Bearing Fit Post Repair       90.     Degrees     60 Degrees       87.     Opposite Drive End - Endbell Bearing Fit Post Repair       0     Degrees     60 Degrees       88.     Bearing Cap Condition Post Repair       Drive End Bearing Cap     Opposite Drive End Bearing Cap       89.     End Bell Air Seal Fits Post Repair       Drive End Air Seal     Opposite Drive End Air Seal       90.     End Bell Repair Sign-off       Assembly     91.       91.     Check All Parts for Cleanliness Prior to Assembly       92.     Photograph All Major Components prior to assembly       93.     Final Insulation Resistance Test       94.     Assembled Shaft Endplay       95.     Assembled Shaft Endplay       96.     Test Run Voltage       Volts     Volts       97.     Test Run Amperage       Armps     Amps       Armps     Amps       98.     Drive End Vibration Readings - Inches Per Second       Horizontal     Vertical       98.     Opposite Drivate Readings - Inches Per Second       Horizontal     Vertical	84	Shaft Air Seal Fits Post Repair			
85. Shaft Repair Sign-off         Mechanical Fits- Bearing Housings - Post Repair         86. Drive End - Endbell Bearing Fit Post Repair         0 Degrees       60 Degrees         87. Opposite Drive End - Endbell Bearing Fit Post Repair         0 Degrees       60 Degrees         88. Bearing Cap Condition Post Repair         0 Drive End Bearing Cap       Opposite Drive End Bearing Cap         89. End Bell Air Seal Fits Post Repair         Drive End Air Seal       Opposite Drive End Air Seal         90. End Bell Repair Sign-off         Assembly         91. QC Check All Parts for Cleanliness Prior to Assembly         92. Photograph All Major Components prior to assembly         93. Final Insulation Resistance Test         94. Assembled Shaft Endplay         95. Assembled Shaft Endplay         96. Test Run Voltage         Volts       Volts         Volts       Volts         97. Test Run Amperage         Amps       Amps         98. Drive End Vibration Readings - Inches Per Second         Horizontal       Vertical       Axial         99. Opposite Drive End Vibration Readings - Inches Per Second         Horizontal       Vertical       Axial         100. Ambient Temperature - Fahrenheit       10 Minutes       1	04.	·	Opposite Drive End Air Seal		
Mechanical Fits- Bearing Housings - Post Repair         86. Drive End - Endbell Bearing Fit Post Repair         0 Degrees       60 Degrees         120 Degrees       60 Degrees         87. Opposite Drive End - Endbell Bearing Fit Post Repair       0         0 Degrees       60 Degrees       120 Degrees         88. Bearing Cap Condition Post Repair       0       Drive End Bearing Cap       Opposite Drive End Bearing Cap         90. End Bell Air Seal Fits Post Repair       0       Drive End Air Seal       Opposite Drive End Air Seal         90. End Bell Repair Sign-off       Assembly       10       Assembly         91. QC Check All Parts for Cleanliness Prior to Assembly       91       91       QC Check All Parts for Cleanliness Prior to Assembly         92. Photograph All Major Components prior to assembly       93       Final Insulation Resistance Test       94         94. Assembled Shaft Runout       96       Test Run Voltage       Volts       Volts         97. Test Run Amperage       Amps       Amps       4       4         98. Drive End Vibration Readings - Inches Per Second       Horizontal       Volts       10         98. Drive End Vibration Readings - Inches Per Second       Horizontal       Axial       10         99. Oposite Drive End Vibration Readings - Inches Per Second       Horizo		Drive Life All Seal	Opposite Drive Lind All Seal		
Mechanical Fits- Bearing Housings - Post Repair         86. Drive End - Endbell Bearing Fit Post Repair         0 Degrees       60 Degrees         120 Degrees       60 Degrees         87. Opposite Drive End - Endbell Bearing Fit Post Repair       0         0 Degrees       60 Degrees       120 Degrees         88. Bearing Cap Condition Post Repair       0       Drive End Bearing Cap       Opposite Drive End Bearing Cap         90. End Bell Air Seal Fits Post Repair       0       Drive End Air Seal       Opposite Drive End Air Seal         90. End Bell Repair Sign-off       Assembly       10       Assembly         91. QC Check All Parts for Cleanliness Prior to Assembly       91       91       QC Check All Parts for Cleanliness Prior to Assembly         92. Photograph All Major Components prior to assembly       93       Final Insulation Resistance Test       94         94. Assembled Shaft Runout       96       Test Run Voltage       Volts       Volts         97. Test Run Amperage       Amps       Amps       4       4         98. Drive End Vibration Readings - Inches Per Second       Horizontal       Volts       10         98. Drive End Vibration Readings - Inches Per Second       Horizontal       Axial       10         99. Oposite Drive End Vibration Readings - Inches Per Second       Horizo	85.	Shaft Repair Sign-off			
86. Drive End - Endbell Bearing Fit Post Repair       0 Degrees       120 Degrees         87. Opposite Drive End - Endbell Bearing Fit Post Repair       0 Degrees       120 Degrees         88. Bearing Cap Condition Post Repair       0 Deprees       120 Degrees         98. Bearing Cap Condition Post Repair       Drive End Bearing Cap       Opposite Drive End Bearing Cap         99. End Bell Air Seal Fits Post Repair       Drive End Air Seal       Opposite Drive End Air Seal         90. End Bell Repair Sign-off       Assembly       91       QC Check All Parts for Cleanliness Prior to Assembly         91. QC Check All Parts for Cleanliness Prior to Assembly       92       Photograph All Major Components prior to assembly         92. Final Insulation Resistance Test       94       Assembled Shaft Runout       95         95. Assembled Shaft Runout       96       Test Run Voltage       Volts         Volts       Volts       Volts       Volts         97. Test Run Amperage       Amps       Amps         Amps       Amps       Amps         98. Drive End Vibration Readings - Inches Per Second       Horizontal       Vertical         98. Opposite Drive End Vibration Readings - Inches Per Second       Horizontal       Axial         100. Ambient Temperature - Fahrenheit       10 Minutes       15 Minutes       10 Minutes </th <th></th> <th></th> <th>ost Repair</th> <th></th>			ost Repair		
0 Degrees     60 Degrees     120 Degrees       87. Opposite Drive End - Endbell Bearing Fit Post Repair     0 Degrees     60 Degrees     120 Degrees       88. Bearing Cap Condition Post Repair     Drive End Bearing Cap     Opposite Drive End Bearing Cap       99. End Bell Air Seal Fits Post Repair     Drive End Air Seal     Opposite Drive End Air Seal       90. End Bell Air Seal Fits Post Repair     Drive End Air Seal     Opposite Drive End Air Seal       90. End Bell Repair Sign-off     Assembly     1       91. QC Check All Parts for Cleanliness Prior to Assembly     9       93. Find Insulation Resistance Test     9       94. Assembled Shaft Endplay     9       95. Assembled Shaft Runout     9       96. Test Run Amperage     Volts       Volts     Volts       Volts     Volts       97. Test Run Amperage     Amps       Amps     Amps       98. Drive End Vibration Readings - Inches Per Second       Horizontal     Vertical       Axial       190. Ambient Temperature - Fahrenheit       101. Drive End Bearing Temps - Fahrenheit       102. Opposite Drive End Bearing Temps - Fahrenheit       103. Document Final Condition with Pictures after paint					
87. Opposite Drive End - Endbell Bearing Fit Post Repair       0 Degrees       60 Degrees       120 Degrees         88. Bearing Cap Condition Post Repair       Drive End Bearing Cap       Opposite Drive End Bearing Cap         89. End Bell Air Seal Fits Post Repair       Drive End Air Seal       Opposite Drive End Air Seal         90. End Bell Air Seal Fits Post Repair       Drive End Air Seal       Opposite Drive End Air Seal         90. End Bell Repair Sign-off       Assembly       91       QC Check All Parts for Cleanliness Prior to Assembly         91. QC Check All Parts for Cleanliness Prior to assembly       92       Photograph All Major Components prior to assembly         93. Final Insulation Resistance Tost       94       Assembled Shaft Endplay       95         94. Assembled Shaft Runout       98       Test Run Voltage       Volts       Volts         Volts       Volts       Volts       Volts       97         97. Test Run Amperage       Amps       Amps       Amps         98. Drive End Vibration Readings - Inches Per Second       Horizontal       Vertical       Axial         99. Opposite Drive End Vibration Readings - Inches Per Second       Horizontal       Vertical       Axial         100. Ambient Temperature - Fahrenheit       101       Drive End Bearing Temps - Fahrenheit       15 Minutes         102. Opposite		-	•	120 Degrees	
0 Degrees     60 Degrees     120 Degrees       88. Bearing Cap Condition Post Repair     Drive End Bearing Cap     Opposite Drive End Bearing Cap       89. End Bell Air Seal Fits Post Repair     Drive End Air Seal     Opposite Drive End Air Seal       90. End Bell Repair Sign-off     Assembly       91. QC Check All Parts for Cleanliness Prior to Assembly     91.       92. Photograph All Major Components prior to assembly     93.       93. Final Insulation Resistance Test     94.       94. Assembled Shaft Endplay     95.       95. Assembled Shaft Endplay     96.       96. Test Run Voltage     Volts       Volts     Volts       97. Test Run Amperage     Armps       Armps     Armps       98. Drive End Vibration Readings - Inches Per Second       Horizontal     Vertical       100. Ambient Temperature - Fahrenheit       101. Drive End Bearing Temps - Fahrenheit       102. Opposite Drive End Vibration Readings - Inches Per Second       Horizontal     Vertical       Axial		0 _ 0 3.000			
88. Bearing Cap Condition Post Repair       Opposite Drive End Bearing Cap         99. End Bell Air Seal Fils Post Repair       Drive End Air Seal         90. End Bell Repair Sign-off       Opposite Drive End Air Seal         91. QC Check All Parts for Cleanliness Prior to Assembly       91.         92. Photograph All Major Components prior to assembly       92.         93. Final Insulation Resistance Test       94.         94. Assembled Shaft Endplay       95.         95. Assembled Shaft Runout       96.         96. Test Run Voltage       Volts         Volts       Volts         Volts       Volts         97. Test Run Amperage       Amps         Amps       Amps         98. Drive End Vibration Readings - Inches Per Second       Horizontal         199. Opposite Drive End Vibration Readings - Inches Per Second       Horizontal         190. Armbient Temperature - Fahrenheit       10         1010. Ambient Temperature - Fahrenheit       15 Minutes         102. Opposite Drive End Bearing Temps - Fahrenheit       15 Minutes         103. Document Final Condition with Pictures after paint       15 Minutes	87.	Opposite Drive End - Endbell Bearing	Fit Post Repair		
88. Bearing Cap Condition Post Repair       Opposite Drive End Bearing Cap         98. End Bell Air Seal Fits Post Repair       Opposite Drive End Air Seal         90. End Bell Repair Sign-off       Opposite Drive End Air Seal         91. QC Check All Parts for Cleanliness Prior to Assembly       91. QC Check All Parts for Cleanliness Prior to assembly         92. Photograph All Major Components prior to assembly       93. Final Insulation Resistance Test         94. Assembled Shaft Endplay       93. Sasembled Shaft Runout         95. Test Run Voltage       Volts         Volts       Volts         Volts       Volts         97. Test Run Amperage       Amps         Amps       Amps         98. Drive End Vibration Readings - Inches Per Second       Horizontal         Vertical       Axial         199. Opposite Drive End Vibration Readings - Inches Per Second       Horizontal         Vertical       Axial         190. Ambient Temperature - Fahrenheit       101. Drive End Bearing Temps - Fahrenheit         101. Drive End Bearing Temps - Fahrenheit       15 Minutes         102. Opposite Drive End Vibration with Pictures after paint       15 Minutes		0 Degrees	60 Degrees	120 Degrees	
Drive End Bearing Cap       Opposite Drive End Bearing Cap         89. End Bell Air Seal Fits Post Repair       Opposite Drive End Air Seal         90. End Bell Repair Sign-off       Opposite Drive End Air Seal         91. QC Check All Parts for Cleanliness Prior to Assembly       92.         92. Photograph All Major Components prior to Assembly       93.         93. Final Insulation Resistance Test       94.         94. Assembled Shaft Endplay       95.         95. Assembled Shaft Runout       96.         96. Test Run Voltage       Volts         Volts       Volts         Volts       Volts         97. Test Run Amperage       Amps         Amps       Amps         98. Drive End Vibration Readings - Inches Per Second       Horizontal         Horizontal       Vertical       Axial         99. Opposite Drive End Vibration Readings - Inches Per Second       Horizontal         Horizontal       Vertical       Axial         100. Ambient Temperature - Fahrenheit       10       Axial         101. Drive End Bearing Temps - Fahrenheit       5 Minutes       15 Minutes         102. Opposite Drive End Bearing Temps - Fahrenheit       5 Minutes       15 Minutes         103. Document Final Condition with Pictures after paint       15 Minutes       10 </th <th></th> <th></th> <th></th> <th>-</th>				-	
<ul> <li>89. End Bell Air Seal Fits Post Repair <ul> <li>Drive End Air Seal</li> <li>Opposite Drive End Air Seal</li> </ul> </li> <li>90. End Bell Repair Sign-off </li> <li>Assembly <ul> <li>91. QC Check All Parts for Cleanliness Prior to Assembly</li> <li>92. Photograph All Major Components prior to assembly</li> <li>93. Final Insulation Resistance Test</li> <li>94. Assembled Shaft Endplay</li> <li>95. Assembled Shaft Endplay</li> <li>96. Test Run Voltage <ul> <li>Volts</li> <li>Volts</li> <li>Volts</li> </ul> </li> <li>97. Test Run Amperage <ul> <li>Amps</li> <li>Amps</li> <li>Amps</li> </ul> </li> <li>98. Drive End Vibration Readings - Inches Per Second <ul> <li>Horizontal</li> <li>Vertical</li> <li>Vertical</li> <li>Axial</li> </ul> </li> <li>99. Opposite Drive End Vibration Readings - Inches Per Second</li> <li>Horizontal</li> <li>Vertical</li> <li>Vertical</li> <li>Axial</li> </ul> </li> <li>100. Ambient Temperature - Fahrenheit <ul> <li>101. Drive End Bearing Temps - Fahrenheit</li> <li>5 Minutes</li> <li>10 Minutes</li> <li>15 Minutes</li> </ul> </li> <li>15 Minutes</li> <li>10 Minutes after paint</li> </ul>	88.	Bearing Cap Condition Post Repair			
Drive End Air Seal       Opposite Drive End Air Seal         90. End Bell Repair Sign-off         Assembly         91. QC Check All Parts for Cleanliness Prior to Assembly         92. Photograph All Major Components prior to assembly         93. Final Insulation Resistance Test         94. Assembled Shaft Endplay         95. Assembled Shaft Endplay         96. Test Run Voltage         Volts       Volts         Volts       Volts         97. Test Run Amperage         Amps       Amps         Amps       Amps         98. Drive End Vibration Readings - Inches Per Second         Horizontal       Vertical         99. Opposite Drive End Vibration Readings - Inches Per Second         Horizontal       Vertical         100. Ambient Temperature - Fahrenheit         101. Drive End Bearing Temps - Fahrenheit         102. Opposite Drive End Bearing Temps - Fahrenheit         103. Document Final Condition with Pictures after paint		Drive End Bearing Cap	Opposite Drive End Bearing Cap		
Drive End Air Seal       Opposite Drive End Air Seal         90. End Bell Repair Sign-off         Assembly         91. QC Check All Parts for Cleanliness Prior to Assembly         92. Photograph All Major Components prior to assembly         93. Final Insulation Resistance Test         94. Assembled Shaft Endplay         95. Assembled Shaft Endplay         96. Test Run Voltage         Volts       Volts         Volts       Volts         97. Test Run Amperage         Amps       Amps         Amps       Amps         98. Drive End Vibration Readings - Inches Per Second         Horizontal       Vertical         99. Opposite Drive End Vibration Readings - Inches Per Second         Horizontal       Vertical         100. Ambient Temperature - Fahrenheit         101. Drive End Bearing Temps - Fahrenheit         102. Opposite Drive End Bearing Temps - Fahrenheit         103. Document Final Condition with Pictures after paint					
90. End Bell Repair Sign-off         Assembly         91. QC Check All Parts for Cleanliness Prior to Assembly         92. Photograph All Major Components prior to assembly         93. Final Insulation Resistance Test         94. Assembled Shaft Endplay         95. Assembled Shaft Endplay         96. Test Run Voltage         Volts       Volts         Volts       Volts         97. Test Run Amperage         Amps       Amps         4 Axial         98. Drive End Vibration Readings - Inches Per Second         Horizontal       Vertical         99. Opposite Drive End Vibration Readings - Inches Per Second         Horizontal       Vertical         100. Ambient Temperature - Fahrenheit         101. Drive End Bearing Temps - Fahrenheit         102. Opposite Drive End Bearing Temps - Fahrenheit         103. Document Final Condition with Pictures after paint	89.	•			
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#### STANDARD TERMS AND CONDITIONS FOR PURCHASE OF GOOD AND/OR SERVICES

- 1. <u>APPLICABILITY.</u> 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. <u>SCOPE OF GOODS AND/OR SERVICES.</u> The goods and/or services provided by Hi-Speed pursuant to any quotation shall be limited exclusively to those goods and/or services expressly identified therein. Hi-Speed does not assume any responsibility and/or liability for the failure to provide any other goods and/or services not identified in any quotation. Modifications, additions or deletions to or from the scope referenced in any quotation shall only be effective if evidenced in writing and signed by Hi-Speed. The sale of any of all goods and/or services affected by such modification, addition or deletion shall be subject to these same Standard Terms and Conditions whether or not referenced therein.
- 4. <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. DELIVERY OF GOODS AND/OR SERVICES. Unless otherwise identified in the quotation, all shipments are F.O.B. Hi-Speed's warehouse and the title to and all risk of loss with respect to any goods shipped shall pass to Buyer when such goods are delivered to the carrier at Hi-Speed's warehouse. Hi-Speed will use its best efforts to affect delivery by the date or dates specified in the quotation. However, Hi-Speed shall not be liable for delay in or failure to make shipment, or to perform services, by any identified date for any reason whatsoever, including but not limited to, causes beyond its reasonable control, such as strikes, fires, floods, epidemics, quarantines, restrictions, severe weather, embargos, acts of God, or public enemy, war, riot, delays in transportation or the inability to obtain necessary labor, materials or manufacturing facilities.
- 6. DELIVERY SITE AND TIME FOR PERFORMANCE. Hi-Speed and 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 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 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

**TermsAndConditions** 

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. LIMITATION OF DAMAGES. HI-SPEED SHALL HAVE NO LIABILITY TO BUYER WITH RESPECT TO THE SALE OR DELIVERY OF ANY GOODS OR THE REPAIR THEREOF OR WITH RESPECT TO THE SALE OR PERFORMANCE OF ANY SERVICES, FOR LOST PROFITS, SPECIAL, CONSEQUENTIAL, EXEMPLARY, PUNITIVE OR INCIDENTAL DAMAGES OF ANY KIND OR NATURE WHETHER ARISING IN CONTRACT, TORT, GOODS LIABILITY OR OTHERWISE, EVEN IF HI-SPEED WAS ADVISED OF THE POSSIBILITY OF SUCH LOSS OR DAMAGES. HI-SPEED SHALL NOT BE LIABLE FOR ANY DAMAGES OR DELAYS CAUSED BY ANY FAILURE TO MAKE ANY DELIVERY OF GOODS BY ANY EXPECTED TIME OR DATE OR THE FAILURE TO PROVIDE OR COMPLETE ANY SERVICES BY ANY EXPECTED DATE OR TIME. IN NO EVENT SHALL HI-SPEED BE LIABLE TO BUYER FOR ANY DAMAGES WHATSOEVER IN EXCESS OF THE TOTAL PRICE PAID FOR ALL GOODS AND/OR SERVICES HEREUNDER OR REFERENCED IN ANY QUOTATION OR THE PURCHASE ORDER.
- 10. <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. <u>GOVERNING LAW AND JURISDICTION.</u> 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. <u>ABANDONED EQUIPMENT.</u> 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. <u>ASSIGNMENT.</u> 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. <u>NO INDIVIDUAL LIABILITY</u>. 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.