

LR Motor Shop Repairs

Job Number 101915

Prepared for SLOAN VALVE (11763)

2719 Business Hwy 33 Augusta Arkansas

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AC Inspection as Found - MOTOR SHOP LR

AC Inspection - Rev. 2

1.0



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

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AC Inspection as Found SLOAN VALVE (11763)

2719 Business Hwy 33 Augusta, Arkansas

AC Inspection - Rev. 2

MOTOR SHOP LR

Serial Number:

Location:

Description: 1.0 HP SHAKER

Hi-Speed Job Number:	101915
Manufacturer:	Louis Allis
Serial Number:	TYPE: CJY 4B
HP/kW:	1.0 (HP)
RPM:	690 (RPM)
Frame:	213YZ
Voltage:	230 / 460
Current:	6.6 / 3.3
Phase:	Three
Hz:	60 (Hz)
Enclosure:	TENV
Date Received:	09/29/2023
Repair Stage:	Final

Priorities Found: 7 - High

4 - Good

Overall Condition

10/18/2023 Report Date

Nameplate Picture



Photos of all six sides of the machine.





































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

5. Distance from the end of the shaft to the Coupling/Sheave

inches

■ Ná

Initial Mechanical/Electrical

6. Does Shaft Turn Freely?
7. Does Shaft Have Visible Damage?
(Yes) Yes
(No) No

8. Assembled Shaft Runout
0.002 Inches

27.	Drive End Bearing Brand		na
	anical Inspection		
-	Na		
26.	Stator Overloads/Ohms		
-	Na		
25.	Stator Thermistors/Ohms		
24.	Stator Condition		pass
23.	Number of Stator Slots		36
22.	Perform Surge Test Rewind		(NA) Not Applicable
-	Na		
	1-2	1-3	2-3
21.	Winding Resistance		
2 0.	Na		wegonins
	Electrical Inspection Insulation Resistance/Megger		Megohms
	Broken or Missing Components		na
	Na Prokon or Missing Components		
	·	· ono, rrano	i doori dii
	Quantity	Volts/Watts	Pass/Fail
	Heater Quantity, Ratings		(14) 147
	Fan Condition		pass (N) NA
16	Na Frame Condition		Naga
	Quality	Raing	Quantity Fasseu
10.	Quantity	Rating	Quantity Passed
15.	Na Bearing Temperature Detector Ratin	ng and Function	
		ramig	Quality 1 about
	Quantity	Rating	Quantity Passed
	Stator Temperature Detector Rating	and Function	
13.	•		1-3
	Lead Length		12 Inches
11.	Lead Condition Rewind		(F) Fail
44	Na		/P1 P 11
10.	Air Gap Variation <10%		
-	Na		
	Assembled Shaft End Play		

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29. Drive End Bearing Qty.	1
30. Drive End Bearing Type	(Ball) Ball Bearing
31. Drive End Lubrication Type	(Grease) Grease Lubricated
32. Drive End Bearing Insulation or Grounding Device?	
Na	
33. Drive End Wavy Washer/Snap-Ring Other Retention Device?	snap ring
34. Drive End Bearing Condition	signs of contamination



35.	Opposite Drive End Bearing Brand	
-	Na	
36.	Opposite Drive End Bearing Number-	6208
37.	Opposite Drive End Bearing Qty.	1
38.	Opposite Drive End Bearing Type	(Ball) Ball Bearing
39.	Opposite Drive End Lubrication Type	(Grease) Grease Lubricated
40.	Opposite Drive End Bearing Insulation or Grounding Device?	
-	Na	
41.	Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?	na
42.	Opposite Drive End Bearing Condition	signs of contamination



43	. Drive End Seal			na
44	. Opposite Drive End Seal			na
45	. DE Sleeve Bearing Inside Diameter			
	0 degrees	120 degrees	240 degrees	
-	Na			
46	. DE Sleeve Bearing Outside Diameter			
	0 degrees	120 degrees	240 degrees	
-	Na			
47	. DE Sleeve Bearing Housing Inside Di			
	0 degrees	120 degrees	240 degrees	
	Na			
-	DE Sleeve Bearing to Housing Cleara	nca		
40	0 degrees	120 degrees	240 degrees	
	0 degrees	120 degrees	240 degrees	
-	Na			
49	. ODE Sleeve Bearing Inside Diameter			
	0 degrees	120 degrees	240 degrees	
-	Na			
50	ODE Sleeve Bearing Outside Diameter			
	0 degrees	120 degrees	240 degrees	
	Na			
_	. ODE Sleeve Bearing Housing Inside I	Diameter		
0.	0 degrees	120 degrees	240 degrees	
	0 d0g.000	120 dog1000	2 10 dog1000	
-	Na			
52	. ODE Sleeve Bearing to Housing Clea	rance		
	0 degrees	120 degrees	240 degrees	
-	Na			
Roto	Rotor Inspection			

Rotor Inspection

53. Rotor Type/Material



54.	Growler Test	(Pass) Pass
55.	Number of Rotor Bars	44
56.	Rotor Condition	pass
57.	List the Parts needed for the Repair Below	
	6208x 6208 end bell bearing sleeve x2	
58.	Signature of Technician that Disassembled Motor	Cw

Mechanical Fits- Rotor

59.	Shaft Runout		0.002 inches
60.	Rotor Runout		
	Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing
-	Na		
61.	Coupling Fit Closest to Bearing Housi	ng	
	0 Degrees	90 Degrees	120 Degrees
-	Na		
62.	Coupling Fit Closest to the end of the	Shaft	
	0 Degrees	60 Degrees	120 Degrees
-	Na		
63.	Drive End Bearing Shaft Fit		
	0 Degrees	60 Degrees	120 Degrees
	1.5753	1.5753	1.5752
64.	Drive End Bearing Shaft Fit Condition		(P) Pass
65.	Opposite Drive End Bearing Shaft Fit		
	0 Degrees	60 Degrees	120 Degrees
	1.5744	1.5742	1.5744
66.	Opposite Drive End Bearing Shaft Fit	Condition	(F) Fail

67.	Shaft Air Seal Fits			
	Drive End Air Seal	Opposite Drive End Air Seal		
-	Na			
Mech	anical Fits- Bearing Housings			
68.	Drive End - Endbell Bearing Fit			
	0 Degrees	60 Degrees	120 Degrees	
	3.1534	3.1529	3.1535	
69.	Drive End - Endbell Bearing Fit Condi	tion		(F) Fail



70.	70. Opposite Drive End - Endbell Bearing Fit			
	0 Degrees	60 Degrees	120 Degrees	
	3.1522	3.1514	3.1518	
1 71.	Opposite Drive End - Endbell Bearing	Fit Condition		(F) Fail



72.	Bearing Cap Condition	
	Drive End Bearing Cap	Opposite Drive End Bearing Cap
-	The bearing set is in the bearing caps	
73.	End Bell Air Seal Fits	
	Drive End Air Seal	Opposite Drive End Air Seal
	Na	

Both end bell bearing fits and the ODE shaft bearing seat 75. Technician Cw **Dynamic Balance Report** 76. Rotor Weight and Balance Grade Rotor Weight **Balance Grade** 77. Initial Balance Readings Drive End Opposite Drive End 78. Final Balance Readings Drive End Opposite Drive End 79. Technician Rewind 80. Core Test Results - Watts loss per Pound Pre-Burnout Post Burnout 81. Core Hot Spot Test Pre-Burnout Post-Burnout 82. Post Rewind Electrical Test- Insulation Resistance 83. Post Rewind Polarization Index 84. Post Rewind Winding Resistance 1-2 1-3 2-3 85. Post Rewind Surge Test 86. Post Rewind Hi-Pot 87. Technician **Root Cause of Failure** 88. Failure locations Windings, bearings, both end bell bearing fits, and ODE shaft bearing fit 89. Root cause of failure Over loaded, contamination, and wear Mechanical Fits- Rotor - Post Repair 90. Shaft Runout Post Repair 91. Rotor Runout Post Repair Drive End Bearing Fit Opposite Drive End Bearing Rotor Body 92. Coupling Fit Closest to Bearing Housing Post Repair 0 Degrees 90 Degrees 120 Degrees

74. List Machine Work Needed Below

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93.	Coupling Fit Closest to the end of the	Shaft Post Repair	
	0 Degrees	60 Degrees	120 Degrees
94.	Drive End Bearing Shaft Fit Post Repa		
	0 Degrees	60 Degrees	120 Degrees
95.	Opposite Drive End Bearing Shaft Fit	Post Repair	
	0 Degrees	60 Degrees	120 Degrees
		•	ŭ
96.	Shaft Air Seal Fits Post Repair		
	Drive End Air Seal	Opposite Drive End Air Seal	
97	Shaft Repair Sign-off		
	anical Fits- Bearing Housings - P	ost Repair	
	Drive End - Endbell Bearing Fit Post F	-	
	0 Degrees	60 Degrees	120 Degrees
			_
99.	Opposite Drive End - Endbell Bearing	·	
	0 Degrees	60 Degrees	120 Degrees
100	Bearing Cap Condition Post Repair		
	Drive End Bearing Cap	Opposite Drive End Bearing Cap	
	2.10 2.10 2001 lig Cup	opposite zina zearing cap	
101.	End Bell Air Seal Fits Post Repair		
	Drive End Air Seal	Opposite Drive End Air Seal	
102	DE Sleeve Bearing Inside ID Post Re	nair	
102.	Measure 1	Measure 2	Measure 3
	Wedgare 1	ModSdro Z	Widdow o
103.	DE Sleeve Bearing Outside ID Post R	epair	
	Measure 1	Measure 2	Measure 3
404	DE Classes Dagging Incide OD Doct D		
104.	DE Sleeve Bearing Inside OD Post Re Measure 1	epair Measure 2	Measure 3
	ivieasure i	ivieasure 2	weasure 3
105.	DE Sleeve Bearing Outside OD Post	Repair	
	Measure 1	Measure 2	Measure 3
	End Bell Repair Sign-off	i-	
107.	ODE Sleeve Bearing Inside ID Post R Measure 1	Measure 2	Measure 3
	Measure 1	ivieasure 2	Weasure 3
108.	ODE Sleeve Bearing Outside ID Post	Repair	
	Measure 1	Measure 2	Measure 3
109.	ODE Sleeve Bearing Inside OD Post	-	
	Measure 1	Measure 2	Measure 3

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110	ODE Sleeve Bearing Outside OD Pos	t Donoir			
110.	· ·	·	Magazina		
	Measure 1	Measure 2	Measure 3		
Assan	nhly				
Assembly 111. QC Check All Parts for Cleanliness Prior to Assembly					
	Photograph All Major Components pri	•			
	Final Insulation Resistance Test	or to assembly			
	Assembled Shaft Endplay				
	Assembled Shaft Runout				
	Test Run Voltage				
110.	Volts	Volts	Volts		
	Volta	Volta	VOILS		
117.	Test Run Amperage				
	Amps	Amps	Amps		
	·	·	·		
118.	Drive End Vibration Readings - Inches	s Per Second			
	Horizontal	Vertical	Axial		
119.	Opposite Drive End Vibration Reading				
	Horizontal	Vertical	Axial		
120	Ambient Temperature - Fahrenheit				
	Drive End Bearing Temps - Fahrenhe	†			
121.	5 Minutes	10 Minutes	15 Minutes		
	5 Williates	10 Militates	10 Millates		
122.	Drive End Bearing Temps - Fahrenhe	t 20-30 Minutes			
	20 Minutes	25 Minutes	30 Minutes		
123.	Drive End Bearing Temps - Fahrenhe				
	35 Minutes	40 Minutes	45 Minutes		
124	Drive End Bearing Temps - Fahrenhe	t 50-60 Minutes			
124.	50 Minutes	55 Minutes	60 Minutes		
	30 Milliates	33 Milliates	oo wiinates		
125.	Opposite Drive End Bearing Temps -	Fahrenheit			
	5 Minutes	10 Minutes	15 Minutes		
126.	Opposite Drive End Bearing Temps -				
	20 Minutes	25 Minutes	30 Minutes		
407	Opposite Drive Fed Bearing Terr	Cohrophoit 25, 45 Minutes			
127.	Opposite Drive End Bearing Temps -		45 Minutos		
	35 Minutes	40 Minutes	45 Minutes		
128.	Opposite Drive End Bearing Temps -	Fahrenheit 50-60 Minutes			
. 20.	50 Minutes	55 Minutes	60 Minutes		
129.	Stator Temperatures- Fahrenheit				
	5 Minutes	10 Minutes	15 Minutes		

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130. Stator Temperatures- Fahre	nheit 20-30 Minutes	
20 Minutes	25 Minutes	30 Minutes
131. Stator Temperatures- Fahre	nheit 35-45 Minutes	
35 Minutes	40 Minutes	45 Minutes
132. Stator Temperatures- Fahre	nheit 50-60 Minutes	
50 Minutes	55 Minutes	60 Minutes
133. Document Final Condition w	ith Pictures after paint	
133. Document Final Condition w134. Final Pics and QC Review	ith Pictures after paint	



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- 1. APPLICABILITY. The sale of any and all goods and/or services by Mock, Inc. d/b/a Hi-Speed Industrial Service ("Hi-Speed") shall be specifically conditioned upon and subject to the following terms and conditions which are incorporated by reference into any contracts and purchase orders with Hi-Speed, and which shall form and become a part of any agreement related thereto. Buyer's acceptance of any offer or quotation made by Hi-Speed for sale of any goods or services is expressly made subject to the terms and conditions set forth herein and to be so effective, Buyer need not sign or approve these Terms and Conditions to be bound hereunder provided a copy of same is provided to Buyer through any means. None of the terms and conditions contained herein may be added to, expanded, changed, modified, superseded or otherwise altered except as revised in writing and duly executed by Hi-Speed, and all orders received by Hi-Speed shall be governed only by the terms and conditions contained herein, notwithstanding any terms, conditions or provisions of any purchase order, release order, authorization or any other form issued by the Buyer. Hi-Speed hereby objects to any additional, modified, changed, deleted, altered or other terms and conditions not contained herein and notifies Buyer that any such terms or provisions are expressly rejected by Hi-Speed.
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- 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.