



**KEEPING YOUR FACILITY UP TO SPEED**  
— EVERY DAY SINCE 1946 —

Motor Shop Repairs

**Job Number 97640**

Prepared for SLOAN VALVE (11763)

2719 Business Hwy 33  
Augusta Arkansas

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AC Recondition Repair Report

1.0

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7030 Ryburn Dr  
Millington, Tn 38053  
901-873-5300

## AC Recondition Repair Report

FolderID: 97640  
FormID: 9523800

### SLOAN VALVE (11763)

2719 Business Hwy 33  
Augusta, Arkansas

Priorities Found: ● 2 - High ● 14 - Good

General		
1. Job Number	97640	
2. Report Date		
3. Customer	SLOAN VALVE	
Name Plate Information		
4. Manufacturer	NIDEC	P5
5. Model	DD16	
6. Serial Number		
7. Horsepower	200	
8. KW		
9. Volts	460	
10. Amps	231	
11. RPM	1785	
12. Frame	445T	
13. Enclosure	DP	
14. Cycles	60	
15. Phase	3	
16. Service Factor		
17. Motor Mount Position		
Initial Inspection		
18. Number of Leads	6	
19. Lead Length	8 Inches	
20. Lead Size		
<span style="color: green;">●</span> 21. Lead Condition	(P) Pass	
22. Lead Markings	1-6	
23. Lug Size, Condition, and Type		
24. Winding RTD's		
25. Winding Rtd's Condition		
26. Shaft Run Out		
27. Does Shaft Turn Freely	yes	
28. Does Shaft Have Visible Damage	no	
29. Bearing Rtd's		
30. Bearing Rtd's Condition		
31. Contamination		
<i>Dust</i>		
<span style="color: green;">●</span> 32. Frame Condition	(P) Pass	

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33. Fan Condition	(NA) Not Applicable
34. Broken or missing components NA	
<b>Initial Electric Test</b>	
35. Resistance to Ground	
36. Winding Resistance 1-2	
37. Winding Resistance 2-3	
38. Winding Resistance 1-3	
39. Resistive Imbalance	
40. Hi-Pot	
41. Surge Test	(P) Pass
42. Stator Condition	pass
43. Failure Location	
<b>Initial Rotor Inspection</b>	
44. Rotor Type	cast aluminum
45. Air Gap <10% Variation	
46. Number of Rotor Bars	
47. Number of Broken Rotor Bars	
48. Growler Test	(P) Pass
49. Rotor Condition	(P) Pass
<b>Mechanical Inspection</b>	
50. Bearing Manufacture	
51. Bearing DE Size	6220
52. Bearing DE Type	ball
53. DE Bearing Qty.	1
54. Bearing ODE Size	6313
55. Bearing ODE Type	ball
56. ODE Bearing Qty.	1
57. Insulated Bearing	
58. Lubrication Type	grease
59. Grease Condition	(F) Fail
60. Bearing Retainers	(Y) Yes
61. Shaft Grounding Device	
62. DE Seal	
63. DE Seal Type/Size	
64. ODE Seal	
65. ODE Seal Type/Size	
<b>Root Cause of Failure</b>	
66. Component Failure	bearings worn, DE end bell is over sized,
67. Cause of Failure Wear	
68. Comments Recommend new bearings and machine work on DE end bell	
69. Service Technician	
<b>Machine Fit Inspection Report</b>	
70. Shaft Run Out	

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71.	Initial Shaft Run Out		
72.	Final Shaft Run Out		
73.	DE Bearing Shaft Fit	(P) Pass	
74.	DE Initial Shaft Bearing Fit Size 1	3.9374 "	
75.	DE Initial Shaft Bearing Fit Size 2	3.9374 "	
76.	DE Initial Shaft Bearing Fit Size 3	3.9375 "	
77.	DE Finial Shaft Bearing Fit Size 1		
78.	DE Finial Shaft Bearing Fit Size 2		
79.	DE Finial Shaft Bearing Fit Size 3		
80.	ODE Bearing Shaft Fit	(P) Pass	
81.	ODE Initial Shaft Bearing Fit Size 1	2.5596 "	
82.	ODE Initial Shaft Bearing Fit Size 2	2.5597 "	
83.	ODE Initial Shaft Bearing Fit Size 3	2.5597 "	
84.	ODE Finial Shaft Bearing Fit Size 1		
85.	ODE Finial Shaft Bearing Fit Size 2		
86.	ODE Finial Shaft Bearing Fit Size 3		
87.	DE Air Seal Shaft Fit		
88.	DE Initial Air Seal Shaft Size		
89.	DE Final Air Seal Shaft Size		
90.	ODE Air Seal Shaft Fit		
91.	ODE Initial Air Seal Shaft Size		
92.	ODE Final Air Seal Shaft Size		
93.	DE Endbell Fit	(F) Fail	P129
94.	DE Initial Endbell Fit Size 1	7.0889 "	
95.	DE Initial Endbell Fit Size 2	7.0886 "	
96.	DE Initial Endbell Fit Size 3	7.0877 "	
97.	DE Final Endbell Fit Size 1	7.0868 "	
98.	DE Finial Endbell Fit Size 2	7.0868 "	
99.	DE Final Endbell Fit Size 3	7.0869 "	
100.	DE Endbell Fit Insulated		
101.	DE Endbell Air Seal Fit		
102.	Initial Endbell Air Seal Fit Size		
103.	Finial Endbell Air Seal Fit Size		
104.	ODE Endbell Fit	(P) Pass	P145
105.	ODE Initial Endbell Fit Size 1	5.5129 "	
106.	ODE Initial Endbell Fit Size 2	5.5127 "	
107.	ODE Initial Endbell Fit Size 3	5.5128 "	
108.	ODE Final Endbell Fit Size 1		
109.	ODE Final Endbell Fit Size 2		
110.	ODE Final Endbell Fit Size 3		
111.	ODE Endbell Fit Insulated		
112.	ODE Endbell Air Seal Fit		
113.	ODE Initial Endbell Seal Fit Size		
114.	ODE Finial Endbell Seal Fit Size		
115.	Foot Flatness	(P) Pass	
116.	Foot Condition	(P) Pass	
117.	Flange Condition	(P) Pass	

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118. Service Technician

Gary Moore


**Balancing Report**

- 119. Balance Type
- 120. Balance Operating Speed
- 121. Start Left End
- 122. Start Right End
- 123. Balancing Specification
- 124. Finish Left End
- 125. Finish Right End
- 126. Service Technician

**Assembly and Final Test**

127. Meggar Testing Reading	53000 Mohm	P3
● 128. Surge Test	(P) Pass	
129. Hi-Pot		
130. Winding Resistance 1-2		
131. Winding Resistance 2-3		
132. Winding Resistance 1-3		
133. Test Run Voltage Phase A	456 Volts	P56
134. Test Run Amps A	75 Amps	
135. Test Run Voltage Phase B	456 Volts	P66
136. Test Run Amps B	74.09999999999999 Amps	
137. Test Run Voltage Phase C	457 Volts	P77
138. Test Run Amps C	73.5 Amps	
139. DE Horizontal Vibration Reading	0.02 In/Sec	
140. DE Vertical Vibration Reading	0.04 In/Sec	
141. DE Axial Vibration Reading	0.01 In/Sec	
142. ODE Horizontal Vibration Reading	0.03 In/Sec	
143. ODE Vertical Vibration Reading	0.04 In/Sec	
144. ODE Axial Vibration Reading	0.01 In/Sec	
145. Ambient Temp at start of Test Run		
146. Temp at 5 minutes		
147. Temp at 10 minutes		
148. Temp at 15 minutes		
149. Temp at 20 minutes		
150. Temp at 25 minutes		
151. Temp at 30 minutes		
152. Temp at 35 minutes		
153. Temp at 40 minutes		
154. Temp at 45 minutes		
155. Temp at 50 minutes		
156. Temp at 55 minutes		
157. Temp at 60 minutes		
● 158. Motor Paint	(P) Pass	P136

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P3.1



P5.2



P5.3



P5.4



P5.5



P5.6



P56.7



P66.8



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P129.10



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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 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.
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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.
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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

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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, earthquake, 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. **NONWAIVER.** 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.
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