

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

# Motor Shop Repairs

# Job Number 98901

Prepared for SLOAN VALVE (11763)

2719 Business Hwy 33 Augusta Arkansas

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### **AC Recondition Repair Report**

SLOAN VALVE (11763) 2719 Business Hwy 33 Augusta, Arkansas

Priorities Found: 15 - Good

| General                |              |             |
|------------------------|--------------|-------------|
| 1.                     | Job Number   | 98901       |
| 2.                     | Report Date  | 10/21/2021  |
| 3.                     | Customer     | Sloan Valve |
| Name Plate Information |              |             |
| 4.                     | Manufacturer | Louis Allis |



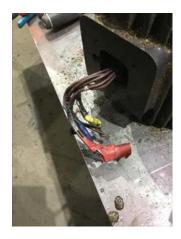




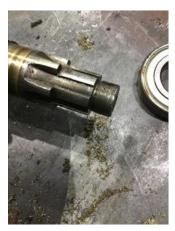


| 5. | Model         | 8307556024 |
|----|---------------|------------|
| 6. | Serial Number | 68C3       |
| 7. | Horsepower    | 5          |
| 8. | KW            |            |
| 9. | Volts         | 460        |

| 10.         | Amps                 | 6.7       |
|-------------|----------------------|-----------|
| 11.         | RPM                  | 1750      |
| 12.         | Frame                | 215B      |
| 13.         | Enclosure            | TEFC      |
| 14.         | Cycles               | 60        |
| 15.         | Phase                | 3         |
| 16.         | Service Factor       | 1.00      |
| 17.         | Motor Mount Position |           |
| Initial     | Inspection           |           |
| 18.         | Number of Leads      | 9         |
| 19.         | Lead Length          | 12 Inches |
| 20.         | Lead Size            | 16        |
| <b>2</b> 1. | Lead Condition       | (P) Pass  |
| -           | Hooked 230 Volts     |           |
|             |                      |           |



| 22. | Lead Markings                  | 1-9                 |
|-----|--------------------------------|---------------------|
| 23. | Lug Size, Condition, and Type  |                     |
| 24. | Winding RTD's                  | (NA) Not Applicable |
| 25. | Winding Rtd's Condition        | (NA) Not Applicable |
| 26. | Shaft Run Out                  |                     |
| 27. | Does Shaft Turn Freely         | yes                 |
| 28. | Does Shaft Have Visible Damage | yes                 |
| -   | Threads need cleaned up        |                     |







| 34     | Broken or missing components |                     |  |
|--------|------------------------------|---------------------|--|
| Initia | Initial Electric Test        |                     |  |
| 35     | Resistance to Ground         | 0 Mohm              |  |
| 36     | Winding Resistance 1-2       |                     |  |
| 37     | Winding Resistance 2-3       |                     |  |
| 38     | Winding Resistance 1-3       |                     |  |
| 39     | Resistive Imbalance          |                     |  |
| 40     | Hi-Pot                       |                     |  |
| • 41   | Surge Test                   | (NA) Not Applicable |  |
| -      | Rewind                       |                     |  |
| 42     | Stator Condition             | rewind              |  |



# 43. Failure Location Initial Rotor Inspection 44. Rotor Type cast aluminum 45. Air Gap <10% Variation 46. Number of Rotor Bars 47. Number of Broken Rotor Bars

48. Growler Test

49. Rotor Condition

#### **Mechanical Inspection**

50. Bearing Manufacture Koyo

51. Bearing DE Size

6307





| 52. Be | earing DE Type  | ball bearing |
|--------|-----------------|--------------|
| 53. DE | E Bearing Qty.  | 1            |
| 54. Be | earing ODE Size | 6207         |





| 55. | Bearing ODE Type       | ball bearing        |
|-----|------------------------|---------------------|
| 56. | ODE Bearing Qty.       | 1                   |
| 57. | Insulated Bearing      | no                  |
| 58. | Lubrication Type       | grease              |
| 59. | Grease Condition       | (NA) Not Applicable |
| 60. | Bearing Retainers      | (Y) Yes             |
| 61. | Shaft Grounding Device | (NA) Not Applicable |
| 62. | DE Seal                | (Y) Yes             |



| 63.         | DE Seal Type/Size  2 seals | SKF 12458           |
|-------------|----------------------------|---------------------|
| 64.         | ODE Seal                   | (NA) Not Applicable |
| 65.         | ODE Seal Type/Size         | , ,                 |
| Root        | Cause of Failure           |                     |
| 66.         | Component Failure          |                     |
| 67.         | Cause of Failure           |                     |
| 68.         | Comments                   |                     |
| 69.         | Service Technician         |                     |
| Machi       | ne Fit Inspection Report   |                     |
| 70.         | Shaft Run Out              |                     |
| 71.         | Initial Shaft Run Out      |                     |
| 72.         | Final Shaft Run Out        |                     |
| <b>7</b> 3. | DE Bearing Shaft Fit       | (P) Pass            |



| 74. DE Initial Shaft Bearing Fit Size 1 | 1.3789 " |
|---|----------|
| 75. DE Initial Shaft Bearing Fit Size 2 | 1.3789 " |
| 76. DE Initial Shaft Bearing Fit Size 3 | 1.3789 " |
| 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





| 81. | ODE Initial Shaft Bearing Fit Size 1 | 1.3783 "            |
|-----|--------------------------------------|---------------------|
| 82. | ODE Initial Shaft Bearing Fit Size 2 | 1.3783 "            |
| 83. | ODE Initial Shaft Bearing Fit Size 3 | 1.3783 "            |
| 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                       | (NA) Not Applicable |
|     | Resleeve                             |                     |



| 94. DE Initial Endbell Fit Size 1 | 3.1509 " |
|-----------------------------------|----------|
| 95. DE Initial Endbell Fit Size 2 | 3.1509 " |
| 96. DE Initial Endbell Fit Size 3 | 3.1509 " |
| 97. DE Final Endbell Fit Size 1   |          |
| 98. DE Finial Endbell Fit Size 2  |          |
| 99. DE Final Endbell Fit Size 3   |          |
| 100. DE Endbell Fit Insulated     |          |





| 105. ODE Initial Endbell Fit Size 1    | 2.8394 "            |
|--|---------------------|
| 106. ODE Initial Endbell Fit Size 2    | 2.8394 "            |
| 107. ODE Initial Endbell Fit Size 3    | 2.8394 "            |
| 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         | (NA) Not Applicable |
| 112. ODE Endbell Air Seal Fit          |                     |
| 113. ODE Initial Endbell Seal Fit Size |                     |
| 114. ODE Finial Endbell Seal Fit Size  |                     |
| 115. Foot Flatness                     | (NA) Not Applicable |
| 116. Foot Condition                    | (NA) Not Applicable |
| 117. Flange Condition                  | (P) Pass            |
| 118. Service Technician                | RW                  |



#### **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            |
|------|-----------------------------------|
| 128. | Surge Test                        |
| 129. | Hi-Pot                            |
| 130. | Winding Resistance 1-2            |
| 131. | Winding Resistance 2-3            |
| 132. | Winding Resistance 1-3            |
| 133. | Test Run Voltage Phase A          |
| 134. | Test Run Amps A                   |
| 135. | Test Run Voltage Phase B          |
| 136. | Test Run Amps B                   |
| 137. | Test Run Voltage Phase C          |
| 138. | Test Run Amps C                   |
| 139. | DE Horizontal Vibration Reading   |
| 140. | DE Vertical Vibration Reading     |
| 141. | DE Axial Vibration Reading        |
| 142. | ODE Horizontal Vibration Reading  |
| 143. | ODE Vertical Vibration Reading    |
| 144. | ODE Axial Vibration Reading       |
| 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                       |
| 159. | Service Technician                |

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