

# EVERY DAY SINCE 1946

LR Motor Shop Repairs

## Job Number 100727

Prepared for Central Arkansas Water-Wilson(10195-01)

Central Arkansas Water Wilson Little Rock AR 72212

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Submersible Pump Repair Report - MOTOR SHOP LR

Submersible Pump Repair Report: 10570799



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

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#### Submersible Pump Repair Report

Central Arkansas Water-Wilson(10195-01) **Central Arkansas Water Wilson** 

| Little | Rock, | AR | 72212 |
|--------|-------|----|-------|
|--------|-------|----|-------|

| Submersible P                                   | ump Repair Report | Make:              | HYDROMATIC  |
|---|-------------------|--------------------|-------------|
| Location:                                       | MOTOR SHOP LR     | HP:                | 40 (HP)     |
| Serial Number:                                  | 10570799          | Model:             | S4K4000M3-4 |
| Description:40HP HYDROMATIC 1800RPM SUB<br>PUMP |                   | Serial:            | 10570799    |
|   |                   | V:                 | 230 (V)     |
|   |                   | A:                 | 105 (A)     |
|   |                   | RPM:               | 1750 (RPM)  |
|   |                   | Hz:                | 60 (Hz)     |
|   |                   | Phase:             | 3           |
|   |                   | Service Factor:    | 1.2         |
|   |                   | Impeller Diameter: | 12 (in)     |
|   |                   |                    |             |

#### Priorities Found: 🔵 3 - High

23 - Good

#### General

1. Job Number





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#### 100727





















| 2.      | Report Date                         | 01/05/2023 |
|---------|-------------------------------------|------------|
| 3.      | Customer                            | CAW        |
| Initial | Pump Inspection                     |            |
| 4.      | Power Cord Wire Size                | AWG        |
| 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    |            |
| 14.     | Bowl Condition                      | (F) Fail   |
| 15.     | Impeller Condition                  | (F) Fail   |
| 16.     | Number of Wear Rings                | 1          |
| 17.     | Wear Ring Condition                 | (F) Fail   |
| 18.     | Wear Ring Size                      |            |
| 19.     | Wear Ring Clearance to Impeller     |            |
| 20.     | Wear Ring Material                  | bronce     |
| 21.     | Seal Surfaces Condition             | (P) Pass   |

| 2   | 22.        | Seal Type                        | Mechanical    |
|-----|------------|----------------------------------|---------------|
| 2   | 23.        | Number of Seals                  | 2             |
| 2   | 24.        | Seal Material on Rotary Face     |               |
| 2   | 25.        | Seal Material on Stationary Seat |               |
| 2   | 26.        | Elastic Component Material       |               |
| 2   | 27.        | Seal OD                          | 2.75 mm       |
| 2   | 28.        | Seal ID                          | 2 in          |
| 2   | 29.        | Seal Sleeve Material             | no sleeve     |
| 3   | 30.        | Seal Plate Condition             | (P) Pass      |
| 3   | 31.        | Water Sensor in Seal Cavity?     | (Y) Yes       |
| 3   | 32.        | Oil Filled Seal Cavity?          | (Y) Yes       |
| 3   | 33.        | Oil Filled Stator?               | (Y) Yes       |
| nit | tial       | Inspection                       |               |
|     |            | Number of Leads                  |               |
| 3   | 35.        | Lead Length                      |               |
|     |            | Lead Size                        |               |
|     |            | Lead Condition                   |               |
|     |            | Lead Markings                    |               |
|     |            | Lead Size for Oil Filled Stator  |               |
|     |            | Lug Size, Condition, and Type    |               |
|     |            | Overload Required?               |               |
|     |            | Winding RTD's                    |               |
|     |            | Winding Rtd's Condition          |               |
|     | +3.<br>14. | Shaft Run Out                    |               |
|     |            | Does Shaft Turn Freely           |               |
|     |            | Does Shaft Have Visible Damage   |               |
|     |            | Bearing Rtd's                    |               |
|     |            | Bearing Rtd's Condition          |               |
|     | +o.<br>19. | Contamination                    |               |
|     | -          |                                  |               |
|     |            | Frame Condition Fan Condition    |               |
|     |            |                                  |               |
|     |            | Broken or missing components     |               |
|     |            | Electric Test                    |               |
|     |            | Resistance to Ground             | 2000 Mohm     |
|     |            | Winding Resistance 1-2           |               |
|     | 55.        | Winding Resistance 2-3           |               |
|     | 56.        | Winding Resistance 1-3           |               |
|     | 57.        | Resistive Imbalance              |               |
|     |            | Hi-Pot                           |               |
|     | 59.        | Surge Test                       | (P) Pass      |
| -   | 50.        | Stator Condition                 | good.         |
|     |            | Failure Location                 |               |
| nit | tial       | Rotor Inspection                 |               |
| 6   | 62.        | Rotor Type                       | cast aluminum |
| 6   | 63.        | Air Gap <10% Variation           |               |
| 6   | 54.        | Number of Rotor Bars             | 40            |

| 65.   | Number of Broken Rotor Bars | 0          |
|-------|-----------------------------|------------|
| 66.   | Growler Test                | (P) Pass   |
| 67.   | Rotor Condition             | (P) Pass   |
| Mecha | anical Inspection           |            |
| 68.   | Bearing Manufacturer        | SKF        |
| 69.   | Bearing DE Size             | 7314 BECBY |



| 70.  | Bearing DE Type  | angular contact            |
|------|--|----------------------------|
| 71.  | DE Bearing Qty.  | 1                          |
| 72.  | Bearing ODE Size   | 6308                       |
| 73.  | Bearing ODE Type   | ball                       |
| 74.  | ODE Bearing Qty.   | 1                          |
| 75.  | Insulated Bearing  | none                       |
| 76.  | Lubrication Type   | transformer oil            |
| 77.  | Grease Condition   |                            |
| 78.  | Bearing Retainers  | (Y) Yes                    |
|      | Snap ring on DE, wavy on ODE   |                            |
| 79.  | Shaft Grounding Device   | (NA) Not Applicable        |
| 80.  | DE Seal  | (NA) Not Applicable        |
| 81.  | DE Seal Type/Size  |                            |
| 82.  | ODE Seal   | (NA) Not Applicable        |
| 83.  | ODE Seal Type/Size   |                            |
| Root | Cause of Failure   |                            |
| 84.  | Component Failure  | impeller and shaft damaged |
| 85.  | Cause of Failure   |                            |
|      | Line Stop/start  |                            |
| 86.  | Comments   |                            |
|      | Replace shaft, sleeve impeller, wear ring, 7314 bearing, 6308 bearing, 2 - 2" * 2.75" mech s | eals                       |
| 87.  | Service Technician   |                            |
| Mach | ne Fit Inspection Report   |                            |
| 88.  | Shaft Run Out  |                            |
| 89.  | Initial Shaft Run Out  |                            |
|      | Final Shaft Run Out  |                            |
| 90.  |  |                            |

| 00    | DE Initial Shaft Paaring Fit Size              |           |           |              |
|-------|--|-----------|-----------|--------------|
| 92.   | DE Initial Shaft Bearing Fit Size<br>Measure 1 | Magguro 2 | Mooguro 2 |              |
|       | weasure i                                      | Measure 2 | Measure 3 |              |
| -     | Shaft is being replaced                        |           |           |              |
| 93.   | DE Final Shaft Bearing Fit Size                |           |           |              |
|       | Measure 1                                      | Measure 2 | Measure 3 |              |
|       |  |           |           |              |
| 94.   | ODE Bearing Shaft Fit                          |           |           | (P) Pass     |
| 95.   | ODE Initial Shaft Bearing Fit Size             |           |           |              |
|       | Measure 1                                      | Measure 2 | Measure 3 |              |
| _     | Chaft is being werdened                        |           |           |              |
| •     | Shaft is being replaced                        |           |           |              |
| 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     |           |              |
|       |  |           |           |              |
|       | ODE Air Seal Shaft Fit                         |           |           |              |
| 100.  | ODE Air Seal Shaft Size                        |           |           |              |
|       | Initial  | Final     |           |              |
| 4.0.4 |  |           |           |              |
| -     | DE Endbell Fit                                 |           |           | (P) Pass     |
| 102.  | DE Initial Endbell Fit Size                    |           |           |              |
|       | Measure 1                                      | Measure 2 | Measure 3 |              |
|       | 5.906  | 5.9059    | 5.906     |              |
| 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     |           |              |
|       |  |           |           |              |
| 107.  | ODE Endbell Fit                                |           |           | (P) Pass     |
| 108.  | ODE Initial Endbell Fit Size                   |           |           |              |
|       | Measure 1                                      | Measure 2 | Measure 3 |              |
|       | 3.5435   | 3.5435    | 3.5435    |              |
| 109.  | ODE Final Endbell Fit Size                     |           |           |              |
|       | Measure 1                                      | Measure 2 | Measure 3 |              |
| 110   | ODE Endbell Fit Insulated                      |           |           |              |
|       | ODE Endbell Air Seal Fit                       |           |           |              |
|       | ODE Endbell Air Seal Fit Size                  |           |           |              |
| 112.  | Initial  | Final     |           |              |
|       | IIIIIdi  | Filia     |           |              |
| 113.  | Foot Flatness                                  |           | (NA) No   | t Applicable |
| -     | Foot Condition                                 |           |           | t Applicable |

| 115. Flange Condition        | (P) Pass     |
|------------------------------|--------------|
| 116. Service Technician      | David Maclin |
| Balancing Report             |              |
| 117. Balance Type            |              |
| 118. Balance Operating Speed |              |
| 119. Start Left End          |              |
| 120. Start Right End         |              |
| 121. Balancing Specification |              |
| 122. Finish Left End         |              |
| 123. Finish Right End        |              |
| 124. Service Technician      |              |
| Assembly and Final Test      |              |

#### 125. Rotor and Impeller Balanced







| • | 126. | Stator Housing Refilled with Oil (if required) | (Y) Yes  |
|---|------|--|----------|
|   | 127. | Stator Pressure Test                           | (P) Pass |
| • | 128. | Seal Cavity Pressure Test                      | (P) Pass |



| 129. T   | Fime Under Pressure    |     | 15 min    |  |
|----------|------------------------|-----|-----------|--|
| 🌒 130. C | Overload Continuity    |     | (P) Pass  |  |
| 🌒 131. V | Nater Sensor Open?     |     | (Y) Yes   |  |
| 132. N   | Meggar Testing Reading |     | 2000 Mohm |  |
| 133. S   | Surge Test             |     |           |  |
| 134. H   | Hi-Pot                 |     |           |  |
| 135. V   | Ninding Resistance     |     |           |  |
| 1        | 1-2                    | 2-3 | 3-1       |  |
|          |                        |     |           |  |

136. Test Run





| 137. Test Run Voltage      |          |         |
|----------------------------|----------|---------|
| Phase A                    | Phase B  | Phase C |
| 231                        | 230      | 231     |
| 138. Test Run Current      |          |         |
| Phase A                    | Phase B  | Phase C |
| 42.9                       | 41.7     | 41      |
| 139. DE Vibration Reading  |          |         |
| Horizontal                 | Vertical | Axial   |
| 0.0026                     | 0.0605   | 0.0018  |
| 140. ODE Vibration Reading |          |         |
| Horizontal                 | Vertical | Axial   |
| 0.0605                     | 0.0593   | 0.0067  |

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(P) Pass

| 155. Service Technician                | David Maclin |
|--|--------------|
| 154. Motor Paint                       | (P) Pass     |
| 153. Temp at 60 minutes                |              |
| 152. Temp at 55 minutes                |              |
| 151. Temp at 50 minutes                |              |
| 150. Temp at 45 minutes                |              |
| 149. Temp at 40 minutes                |              |
| 148. Temp at 35 minutes                |              |
| 147. Temp at 30 minutes                |              |
| 146. Temp at 25 minutes                |              |
| 145. Temp at 20 minutes                |              |
| 144. Temp at 15 minutes                |              |
| 143. Temp at 10 minutes                |              |
| 142. Temp at 5 minutes                 |              |
| 141. Ambient Temp at start of Test Run |              |



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