

# EVERY DAY SINCE 1946

LR Motor Shop Repairs

## Job Number 102175

Prepared for North Little Rock Wastewater (10219)

7400 Baucum Pike N. Little Rock AR 72117

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AC Inspection as Found - MOTOR SHOP LR



MOTOR SHOP LR

C 08 7778394-0022 M 0001

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

> FolderID: 102175 FormID: 18653068

#### AC Inspection as Found

#### North Little Rock Wastewater (10219) 7400 Baucum Pike

Description:15HP US MOTORS AERATOR

N. Little Rock, AR 72117

Location:

Serial Number:

1800RPM 254HPZ

AC Inspection - Rev. 2

| Hi-Speed Job Number: | 102175                   |
|----------------------|--------------------------|
| Manufacturer:        | US Motors/Nidec          |
| Product Number:      | HJ68                     |
| Serial Number:       | C 08 7778394-0022 M 0001 |
| HP/kW:               | 15 (HP)                  |
| RPM:                 | 1775 (RPM)               |
| Frame:               | 254HPZ                   |
| Voltage:             | 230 / 460                |
| Current:             | 35/17.6                  |
| Phase:               | Three                    |
| Hz:                  | 60 (Hz)                  |
| Service Factor:      | 1.15                     |
| Enclosure:           | TEFC                     |
| J-box Included:      | Complete                 |
| Coupling/Sheave:     | Propeller                |
| Bearing RTDs:        | No                       |
| Stator RTDs:         | No                       |
| Repair Stage:        | Final                    |
| Heaters:             | No                       |
| Winding Type :       | Random Wound             |
| Bearing Type:        | Rolling Element          |

#### Priorities Found: **3 - High**

n 🛛 🔵 5 - Good

#### **Overall Condition**

- 1. Report Date
- 2. Nameplate Picture



3. Photos of all six sides of the machine.















































| <ul> <li>9. Assembled Shaft End Play</li> <li>Na</li> </ul> | inches   |
|---|----------|
| 10. Air Gap Variation <10%<br><b>■</b> Na                   |          |
| 11. Lead Condition  | (F) Fail |
|   |          |



| 12. | . Lead Length     | 14 Inches |
|-----|-------------------|-----------|
| 13. | . Lead Numbers    | na        |
| 14. | . Frame Condition | pass      |
| 15. | . Fan Condition   | (P) Pass  |



| 16.     | Broken or Missing Components |     |     | na      |
|---------|------------------------------|-----|-----|---------|
| Initial | Electrical Inspection        |     |     |         |
| 17.     | Insulation Resistance/Megger |     |     | Megohms |
| -       | Na                           |     |     |         |
| 18.     | Winding Resistance           |     |     |         |
|         | 1-2                          | 1-3 | 2-3 |         |
|         | Na                           |     |     |         |





| 20.   | Number of Stator Slots                                  | 44                         |
|-------|---|----------------------------|
| 21.   | Stator Condition  |                            |
|       | Significant core damage                                 |                            |
| 22.   | Stator Thermistors/Ohms                                 |                            |
|       | Na  |                            |
| 23.   | Stator Overloads/Ohms                                   |                            |
|       | Na  |                            |
| Mecha | nical Inspection  |                            |
| 24.   | Drive End Bearing Brand                                 | na                         |
| 25.   | Drive End Bearing Number-                               | 6212                       |
| 26.   | Drive End Bearing Qty.                                  | 1                          |
| 27.   | Drive End Bearing Type                                  | (Other) Other              |
|       | Double row double ball                                  |                            |
| 28.   | Drive End Lubrication Type                              | (Grease) Grease Lubricated |
| 29.   | Drive End Bearing Insulation or Grounding Device?       | na                         |
| 30.   | Drive End Wavy Washer/Snap-Ring Other Retention Device? | spanner nut                |
| 31.   | Drive End Bearing Condition                             | signs of contamination     |



| 32. Opposite Drive End Bearing Brand   | skf  |
|--|------|
| 33. Opposite Drive End Bearing Number- | 6207 |
| 34. Opposite Drive End Bearing Qty.    | 1    |

| 38.      |   |   |  |
|----------|---|---|--|
| 39.      | . Opposite Drive End Bearing Condition  |   |  |
|          | Signs of contamination  |   |  |
| 40.      | Drive End Seal<br>2.0009-2.6210-0.3200  |   |  |
| 41.      | Opposite Drive End Seal   |   | ΝΑ   |
|          | Inspection  |   | NA   |
| 42.      | •   |   | (Squirrel Aluminum) Squirrel   |
|          |   |   | Cage Aluminum Die Cast   |
| 43.      | Growler Test  |   | (Pass) Pass  |
| 44.      | Number of Rotor Bars  |   | 40   |
| 45.      | Rotor Condition   |   | pass   |
| 46.      | List the Parts needed for the Repair B<br>6212 double ball double row<br>6207<br>New lip seal | elow  |  |
| 47.      | Signature of Technician that Disassen   | abled Motor   | Cw   |
| Mecha    | anical Fits- Rotor  |   |  |
| 48.      |   |   | 0.005 inches   |
| 49.      | Rotor Runout  |   |  |
|          | Drive End Bearing Fit   | Rotor Body  | Opposite Drive End Bearing   |
|          | Na  |   |  |
| 50.      | Coupling Fit Closest to Bearing Housi   | na  |  |
| 50.      | 0 Degrees   | 90 Degrees  | 120 Degrees  |
|          | 0 Degrees   | ou Degrees  | 120 Degrees  |
|          | Na  |   |  |
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information, reports, opinions and analysis by the Customer.

#### (Ball) Ball Bearing

#### (Grease) Grease Lubricated

37. Opposite Drive End Bearing Insulation or Grounding Device?

35. Opposite Drive End Bearing Type

36. Opposite Drive End Lubrication Type

. Na

|   | 51.   | <ol> <li>Coupling Fit Closest to the end of the Shaft</li> </ol>   |  |             |          |
|---|---|--|--|-------------|----------|
|   |   | 0 Degrees  | 60 Degrees   | 120 Degrees |          |
|   | -   | Na   |  |             |          |
|   | 52.   | Drive End Bearing Shaft Fit  |  |             |          |
|   |   | 0 Degrees  | 60 Degrees   | 120 Degrees |          |
|   |   | 2.3626   | 2.3626   | 2.3625      |          |
|   | 53.   | Drive End Bearing Shaft Fit Condition  |  |             | (P) Pass |
|   |   | Opposite Drive End Bearing Shaft Fit   |  |             |          |
|   |   | 0 Degrees  | 60 Degrees   | 120 Degrees |          |
|   |   | 1.3783   | 1.3784   | 1.3783      |          |
|   | 55.   | Opposite Drive End Bearing Shaft Fit   | Condition  |             | (P) Pass |
|   | 56.   | Shaft Air Seal Fits  |  |             |          |
|   |   | Drive End Air Seal   | Opposite Drive End Air Seal  |             |          |
|   |   |  |  |             |          |
|   |   | Na   |  |             |          |
| ľ | Nech  | anical Fits- Bearing Housings  |  |             |          |
|   | 57.   | Drive End - Endbell Bearing Fit  |  |             |          |
|   |   | 0 Degrees  | 60 Degrees   | 120 Degrees |          |
|   |   | 4.3315   | 4.3316   | 4.3316      |          |
|   | 58.   | Drive End - Endbell Bearing Fit Condi  | tion   |             | (P) Pass |
|   | 59.   | Opposite Drive End - Endbell Bearing   | Fit  |             |          |
|   |   | 0 Degrees  | 60 Degrees   | 120 Degrees |          |
|   |   |  |  |             |          |
|   |   | 2.8352   | 2.8353   | 2.8353      |          |
|   | 60.   | 2.8352<br>Opposite Drive End - Endbell Bearing   |  | 2.8353      | (P) Pass |
|   |   |  |  | 2.8353      | (P) Pass |
|   |   | Opposite Drive End - Endbell Bearing   |  | 2.8353      | (P) Pass |
|   | 61.   | Opposite Drive End - Endbell Bearing<br>Bearing Cap Condition<br>Drive End Bearing Cap   | Fit Condition  | 2.8353      | (P) Pass |
|   | 61.   | Opposite Drive End - Endbell Bearing<br>Bearing Cap Condition<br>Drive End Bearing Cap<br>Pass   | Fit Condition  | 2.8353      | (P) Pass |
|   | 61.   | Opposite Drive End - Endbell Bearing<br>Bearing Cap Condition<br>Drive End Bearing Cap<br>Pass<br>End Bell Air Seal Fits   | Fit Condition Opposite Drive End Bearing Cap                             | 2.8353      | (P) Pass |
|   | 61.   | Opposite Drive End - Endbell Bearing<br>Bearing Cap Condition<br>Drive End Bearing Cap<br>Pass   | Fit Condition  | 2.8353      | (P) Pass |
|   | 61.   | Opposite Drive End - Endbell Bearing<br>Bearing Cap Condition<br>Drive End Bearing Cap<br>Pass<br>End Bell Air Seal Fits   | Fit Condition Opposite Drive End Bearing Cap                             | 2.8353      | (P) Pass |
|   | 61.<br>•  | Opposite Drive End - Endbell Bearing<br>Bearing Cap Condition<br>Drive End Bearing Cap<br>Pass<br>End Bell Air Seal Fits<br>Drive End Air Seal<br>Na   | Fit Condition Opposite Drive End Bearing Cap                             | 2.8353      | (P) Pass |
|   | 61.<br>62.<br>63.   | Opposite Drive End - Endbell Bearing<br>Bearing Cap Condition<br>Drive End Bearing Cap<br>Pass<br>End Bell Air Seal Fits<br>Drive End Air Seal<br>Na<br>List Machine Work Needed Below<br>Na   | Fit Condition Opposite Drive End Bearing Cap                             | 2.8353      |          |
|   | 61.<br>62.<br>63.   | Opposite Drive End - Endbell Bearing<br>Bearing Cap Condition<br>Drive End Bearing Cap<br>Pass<br>End Bell Air Seal Fits<br>Drive End Air Seal<br>Na<br>List Machine Work Needed Below   | Fit Condition Opposite Drive End Bearing Cap Opposite Drive End Air Seal | 2.8353      | (P) Pass |
|   | <ul><li>61.</li><li>62.</li><li>63.</li><li>64.</li></ul> | Opposite Drive End - Endbell Bearing<br>Bearing Cap Condition<br>Drive End Bearing Cap<br>Pass<br>End Bell Air Seal Fits<br>Drive End Air Seal<br>Na<br>List Machine Work Needed Below<br>Na<br>Technician   | Fit Condition Opposite Drive End Bearing Cap Opposite Drive End Air Seal | 2.8353      |          |
|   | 61.<br>62.<br>63.<br>64.                                  | Opposite Drive End - Endbell Bearing         Bearing Cap Condition         Drive End Bearing Cap         Pass         End Bell Air Seal Fits         Drive End Air Seal         Na         List Machine Work Needed Below         Na         Technician         Cause of Failure         Failure locations   | Fit Condition Opposite Drive End Bearing Cap Opposite Drive End Air Seal | 2.8353      |          |
|   | 61.<br>62.<br>63.<br>64.<br><b>Root</b><br>65.            | Opposite Drive End - Endbell Bearing         Bearing Cap Condition         Drive End Bearing Cap         Pass         End Bell Air Seal Fits         Drive End Air Seal         Na         List Machine Work Needed Below         Na         Technician         Cause of Failure         Failure locations         Bearings and windings                               | Fit Condition Opposite Drive End Bearing Cap Opposite Drive End Air Seal | 2.8353      |          |
| F | 61.<br>62.<br>63.<br>64.<br><b>Root</b><br>65.            | Opposite Drive End - Endbell Bearing         Bearing Cap Condition         Drive End Bearing Cap         Pass         End Bell Air Seal Fits         Drive End Air Seal         Na         List Machine Work Needed Below         Na         Technician         Cause of Failure         Failure locations         Bearings and windings         Root cause of failure | Fit Condition Opposite Drive End Bearing Cap Opposite Drive End Air Seal | 2.8353      |          |
|   | 61.<br>62.<br>63.<br>64.<br>65.<br>65.<br>66.             | Opposite Drive End - Endbell Bearing         Bearing Cap Condition         Drive End Bearing Cap         Pass         End Bell Air Seal Fits         Drive End Air Seal         Na         List Machine Work Needed Below         Na         Technician         Cause of Failure         Failure locations         Bearings and windings                               | Fit Condition Opposite Drive End Bearing Cap Opposite Drive End Air Seal | 2.8353      |          |

| 67.   | Rotor Weight and Balance Grade         |                             |                            |
|-------|--|-----------------------------|----------------------------|
| ••••  | Rotor Weight                           | Balance Grade               |                            |
|       | Hotor Hotgin                           |                             |                            |
| 68.   | Initial Balance Readings               |                             |                            |
|       | Drive End                              | Opposite Drive End          |                            |
|       |  |                             |                            |
| 69.   | Final Balance Readings                 |                             |                            |
|       | Drive End                              | Opposite Drive End          |                            |
| 70    | Technician                             |                             |                            |
| Rewin |  |                             |                            |
|       | Core Test Results - Watts loss per Po  | bund                        |                            |
| 71.   | Pre-Burnout                            | Post Burnout                |                            |
|       |  |                             |                            |
| 72.   | Core Hot Spot Test                     |                             |                            |
|       | Pre-Burnout                            | Post-Burnout                |                            |
|       |  |                             |                            |
|       | Post Rewind Electrical Test- Insulatio | n Resistance                |                            |
|       | Post Rewind Polarization Index         |                             |                            |
| 75.   | Post Rewind Winding Resistance         | 1.0                         |                            |
|       | 1-2                                    | 1-3                         | 2-3                        |
| 76.   | Post Rewind Surge Test                 |                             |                            |
| 77.   | Post Rewind Hi-Pot                     |                             |                            |
| 78.   | Technician                             |                             |                            |
| Mecha | anical Fits- Rotor - Post Repair       |                             |                            |
| 79.   | Shaft Runout Post Repair               |                             |                            |
| 80.   | Rotor Runout Post Repair               |                             |                            |
|       | Drive End Bearing Fit                  | Rotor Body                  | Opposite Drive End Bearing |
|       |  |                             |                            |
| 81.   | Coupling Fit Closest to Bearing House  |                             | 100 5                      |
|       | 0 Degrees                              | 90 Degrees                  | 120 Degrees                |
| 82.   | Coupling Fit Closest to the end of the | Shaft Post Repair           |                            |
|       | 0 Degrees                              | 60 Degrees                  | 120 Degrees                |
|       |  |                             |                            |
| 83.   | Drive End Bearing Shaft Fit Post Rep   | air                         |                            |
|       | 0 Degrees                              | 60 Degrees                  | 120 Degrees                |
|       |  |                             |                            |
| 84.   | 11 0                                   | •                           | 100 5                      |
|       | 0 Degrees                              | 60 Degrees                  | 120 Degrees                |
| 85.   | Shaft Air Seal Fits Post Repair        |                             |                            |
|       | Drive End Air Seal                     | Opposite Drive End Air Seal |                            |
|       |  |                             |                            |
| 86.   | Shaft Repair Sign-off                  |                             |                            |
| Mecha | anical Fits- Bearing Housings - P      | ost Repair                  |                            |
|       |  |                             |                            |

| 87.   | Drive End - Endbell Bearing Fit Post Repair |                                |             |
|-------|---|--------------------------------|-------------|
|       | 0 Degrees                                   | 60 Degrees                     | 120 Degrees |
|       |   |                                |             |
| 88.   | Opposite Drive End - Endbell Bearing        | Fit Post Repair                |             |
|       | 0 Degrees                                   | 60 Degrees                     | 120 Degrees |
|       |   |                                |             |
| 89.   | Bearing Cap Condition Post Repair           |                                |             |
|       | Drive End Bearing Cap                       | Opposite Drive End Bearing Cap |             |
| 90.   | End Bell Air Seal Fits Post Repair          |                                |             |
|       | Drive End Air Seal                          | Opposite Drive End Air Seal    |             |
|       |   |                                |             |
| 91.   | End Bell Repair Sign-off                    |                                |             |
| Asser | nbly  |                                |             |
| 92.   | QC Check All Parts for Cleanliness P        | ior to Assembly                |             |
| 93.   | Photograph All Major Components pri         | or to assembly                 |             |
| 94.   | Final Insulation Resistance Test            |                                |             |
| 95.   | Assembled Shaft Endplay                     |                                |             |
| 96.   | Assembled Shaft Runout                      |                                |             |
| 97.   | Test Run Voltage                            |                                |             |
|       | Volts                                       | Volts                          | Volts       |
|       |   |                                |             |
| 98.   | Test Run Amperage                           |                                |             |
|       | Amps  | Amps                           | Amps        |
| 99.   | Drive End Vibration Readings - Inches       | s Per Second                   |             |
|       | Horizontal                                  | Vertical                       | Axial       |
|       | honzontai                                   | V OTTION                       |             |
| 100.  | Opposite Drive End Vibration Reading        | gs - Inches Per Second         |             |
|       | Horizontal                                  | Vertical                       | Axial       |
|       |   |                                |             |
|       | Ambient Temperature - Fahrenheit            |                                |             |
| 102.  | Drive End Bearing Temps - Fahrenhe          | it                             |             |
|       | 5 Minutes                                   | 10 Minutes                     | 15 Minutes  |
| 102   | Opposite Drive End Bearing Temps -          | Fahrenheit                     |             |
| 100.  | 5 Minutes                                   | 10 Minutes                     | 15 Minutes  |
|       | 5 minutes                                   |                                |             |
| 104.  | Document Final Condition with Picture       | es after paint                 |             |
|       | Final Pics and QC Review                    | ·                              |             |



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- 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.