



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

LR Motor Shop Repairs

Job Number 101814

Prepared for North Little Rock Wastewater (10219)

7400 Baucum Pike
N. Little Rock AR 72117

Table of Contents

AC Inspection as Found - *MOTOR SHOP LR*

AC Inspection - Rev. 2: Y 07 17700602-0001 M 0002

1.0

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Millington, Tn 38053
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AC Inspection as Found
North Little Rock Wastewater (10219)
7400 Baucum Pike
N. Little Rock, AR 72117

FolderID: 101814
FormID: 17813269

AC Inspection - Rev. 2

Location: MOTOR SHOP LR
Serial Number: Y 07 17700602-0001 M 0002
Description: 25HP US MOTORS AERATOR
1200RPM 324LPZH

Hi-Speed Job Number:	101814
Manufacturer:	US Motors/Nidec
Product Number:	1770602-100
Serial Number:	Y 07 17700602-0001 M 0002
HP/kW:	25 (HP)
RPM:	1200 (RPM)
Frame:	324LPZH
Voltage:	230 / 460
Current:	62/31
Phase:	Three
Hz:	60 (Hz)
Service Factor:	1.15
Enclosure:	TEFC
J-box Included:	Complete
Coupling/Sheave:	Propeller
Bearing RTDs:	No
Stator RTDs:	No
Heaters:	No
Winding Type :	Random Wound
Bearing Type:	Rolling Element

Priorities Found: 11 - Good

Overall Condition

1. Report Date
2. Nameplate Picture



3. Photos of all six sides of the machine.

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1.1



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4.	Describe the Overall Condition of the Equipment as Received	
5.	Distance from the end of the shaft to the Coupling/Sheave	
Initial Mechanical/Electrical		
6.	Does Shaft Turn Freely?	(Yes) Yes
7.	Does Shaft Have Visible Damage?	(No) No
8.	Assembled Shaft Runout	0.003 Inches
9.	Assembled Shaft End Play	
10.	Air Gap Variation <10%	

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11. Lead Condition

(P) Pass



12. Lead Length

7 Inches

13. Lead Numbers

1-9

14. Frame Condition

pass

15. Fan Condition

(P) Pass



16. Broken or Missing Components

Initial Electrical Inspection

17. Insulation Resistance/Megger

18. Winding Resistance

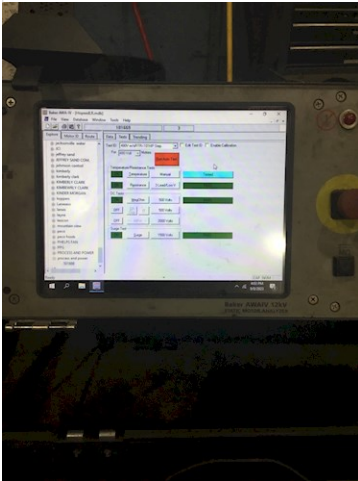
1-2

1-3

2-3

19. Perform Surge Test

(P) Pass



20. Number of Stator Slots	54
21. Stator Condition	pass
22. Stator Thermistors/Ohms	
23. Stator Overloads/Ohms	

Mechanical Inspection

24. Drive End Bearing Brand	NSK
25. Drive End Bearing Number-	5216



26. Drive End Bearing Qty.	1
27. Drive End Bearing Type	(Ball) Ball Bearing
28. Drive End Lubrication Type	(Grease) Grease Lubricated
29. Drive End Bearing Insulation or Grounding Device?	none

30. Drive End Wavy Washer/Snap-Ring Other Retention Device?

star washer and lock ring



31. Drive End Bearing Condition

replace

32. Opposite Drive End Bearing Brand

PEER

33. Opposite Drive End Bearing Number-

6211 Z



34. Opposite Drive End Bearing Qty.

1

35. Opposite Drive End Bearing Type

(Ball) Ball Bearing





36. Opposite Drive End Lubrication Type	(Grease) Grease Lubricated
37. Opposite Drive End Bearing Insulation or Grounding Device?	none
38. Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?	none
39. Opposite Drive End Bearing Condition	replace
40. Drive End Seal	National 416956




41. Opposite Drive End Seal	none
Rotor Inspection	
42. Rotor Type/Material	(Squirrel Aluminum) Squirrel Cage Aluminum Die Cast



43. Growler Test	(Pass) Pass
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44. Number of Rotor Bars	66	
45. Rotor Condition	good	
46. List the Parts needed for the Repair Below		
47. Signature of Technician that Disassembled Motor	Terrence. Holland	
		
Mechanical Fits- Rotor		
48. Shaft Runout	0.004 inches	
49. Rotor Runout		
Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing
50. Coupling Fit Closest to Bearing Housing		
0 Degrees	90 Degrees	120 Degrees
51. Coupling Fit Closest to the end of the Shaft		
0 Degrees	60 Degrees	120 Degrees
52. Drive End Bearing Shaft Fit		
0 Degrees	60 Degrees	120 Degrees
3.1507	3.1507	3.1508
53. Drive End Bearing Shaft Fit Condition	(P) Pass	
54. Opposite Drive End Bearing Shaft Fit		
0 Degrees	60 Degrees	120 Degrees
2.1661	2.166	2.166
55. Opposite Drive End Bearing Shaft Fit Condition	(P) Pass	
56. Shaft Air Seal Fits		
Drive End Air Seal	Opposite Drive End Air Seal	
Mechanical Fits- Bearing Housings		
57. Drive End - Endbell Bearing Fit		
0 Degrees	60 Degrees	120 Degrees
5.5122	5.512	5.5119
58. Drive End - Endbell Bearing Fit Condition	(P) Pass	
59. Opposite Drive End - Endbell Bearing Fit		
0 Degrees	60 Degrees	120 Degrees
3.9374	3.9375	3.9375
60. Opposite Drive End - Endbell Bearing Fit Condition	(P) Pass	
61. Bearing Cap Condition		
Drive End Bearing Cap	Opposite Drive End Bearing Cap	
pass	n/a	
62. End Bell Air Seal Fits		
Drive End Air Seal	Opposite Drive End Air Seal	
63. List Machine Work Needed Below	None	

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64. Technician

Terrence Holland


Dynamic Balance Report

65. Rotor Weight and Balance Grade

Rotor Weight

Balance Grade

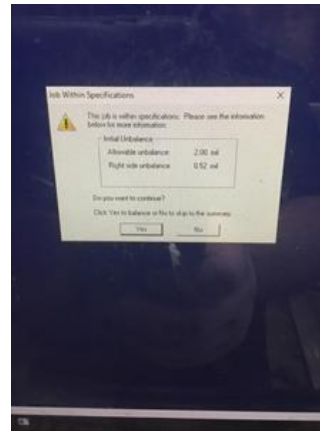
Na

66. Initial Balance Readings

Drive End

Opposite Drive End

Without impeller(0.67-0.23)
With impeller(0.52)



Without impeller

With impeller

67. Final Balance Readings

Drive End

Opposite Drive End

Initial readings passed

68. Technician

Cw


Rewind

69. Core Test Results - Watts loss per Pound

Pre-Burnout

Post Burnout

70. Core Hot Spot Test

Pre-Burnout

Post-Burnout

71. Post Rewind Electrical Test- Insulation Resistance

72. Post Rewind Polarization Index

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73. Post Rewind Winding Resistance		
1-2	1-3	2-3
74. Post Rewind Surge Test		
75. Post Rewind Hi-Pot		
76. Technician		
Root Cause of Failure		
77. Failure locations		
78. Root cause of failure		
<i>Contaminated bearings from grease.</i>		



Mechanical 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 Housing Post Repair		
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 Repair		
0 Degrees	60 Degrees	120 Degrees
84. Opposite Drive End Bearing Shaft Fit Post Repair		
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		
Mechanical Fits- Bearing Housings - Post Repair		
87. Drive End - Endbell Bearing Fit Post Repair		
0 Degrees	60 Degrees	120 Degrees

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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		
Assembly			
92.	QC Check All Parts for Cleanliness Prior to Assembly		



RW



93. Photograph All Major Components prior to assembly	(Complete) Complete		
94. Final Insulation Resistance Test	Megohms		
95. Assembled Shaft Endplay	inches		
<div> <div></div> <div>Na</div> </div>			
96. Assembled Shaft Runout	inches		
<div> <div></div> <div>Na</div> </div>			
97. Test Run Voltage			
Volts	Volts	Volts	
459	456	459	

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98. Test Run Amperage

Amps	Amps	Amps
12	11.4	11.2



99. Drive End Vibration Readings - Inches Per Second

Horizontal	Vertical	Axial
0.03	0.04	0.02

100. Opposite Drive End Vibration Readings - Inches Per Second

Horizontal	Vertical	Axial
0.008999999999999999	0.02	0.02

101. Ambient Temperature - Fahrenheit

Na

102. Drive End Bearing Temps - Fahrenheit

5 Minutes	10 Minutes	15 Minutes
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Na

103. Opposite Drive End Bearing Temps - Fahrenheit

5 Minutes	10 Minutes	15 Minutes
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Na

104. Document Final Condition with Pictures after paint

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Co sign: RW





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2. **PRICE.** All quoted prices shall remain firm and binding for a period of thirty (30) days from the date of quotation or for the period specifically stated in the quotation. The price for any and all goods and/or services ordered or approved by Buyer after thirty (30) days from the date of any quotation are subject to any increase in price that may occur after the expiration of thirty (30) days from the issuance of the quotation and the date the Buyer releases any shipment.
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.
4. **BILLING AND PAYMENT TERMS.** Hi-Speed shall invoice Buyer for all goods and/or services as same are rendered at the address listed on the quotation. Payments for all goods and/or services shall be due thirty (30) days from the date of the current invoice or as otherwise set forth in the quotation. Late payments are subject to a late fee of 5% of the total invoice amount. Recurring late payments may lead to a deposit requirement on future services or sale of goods. Buyer shall be liable to Hi-Speed for any and all fees and expenses incurred by Hi-Speed to collect any invoices or to enforce these Standard Terms and Conditions, including but not limited to, attorney's fees.
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.
6. **DELIVERY SITE AND TIME FOR PERFORMANCE.** Hi-Speed and Buyer agree that time is of the essence for the purchase order and that Buyer shall fully cooperate with Hi-Speed in order to allow Hi-Speed full access to prosecute its work diligently and in an orderly manner. Buyer shall assist Hi-Speed in every way possible to avoid delaying, disrupting or interfering with the progress of Hi-Speed's work at the project site. In the event Hi-Speed's work is delayed, hindered, suspended, disrupted, re-sequenced or interfered with or rendered less efficient or more costly or adversely affected in any way as a result of acts or omissions of Buyer or other contractors or employees of Buyer or by any other reason beyond Hi-Speed's control and without the fault of Hi-Speed, then, in such event, Buyer shall be liable to Hi-Speed for any damages, additional costs, expenses, labor, materials, man hours, acceleration costs, overtime, additional jobsite overhead, extended home office overhead, and any and all other direct and indirect expenses of whatsoever nature or kind, caused in whole or in part, as a result of any of the above-referenced occurrences. Hi-Speed's project records will be the basis for computing the additional costs and damages of Hi-Speed's labor, materials, expenses and overhead related to such changes. BUYER WARRANTS THAT THE SITE FOR DELIVERY OR INSTALLATION OF ANY GOODS AND/OR FOR THE PERFORMANCE OF ANY SERVICES SHALL BE READY AND ADEQUATE FOR HI-SPEED'S DELIVERY OF GOODS AND/OR PERFORMANCE OF SERVICES AND THAT HI-SPEED SHALL HAVE FULL ACCESS THERETO, FREE OF ALL OBSTRUCTIONS. BUYER SHALL ASSUME ALL EXTRA COSTS ASSOCIATED WITH HI-SPEED'S INABILITY TO INSTALL ANY GOODS OR PERFORM ANY SERVICES AS A RESULT OF BUYER'S FAILURE TO COMPLY WITH THIS PROVISION. HI-SPEED MAY NOT INSPECT THE SITE PRIOR TO DELIVERY AND/OR INSTALLATION OF GOODS AND/OR PERFORMANCE OF SERVICES AND MAKES NO WARRANTY AS TO THE SUFFICIENCY OF THE SITE FOR THE DELIVERY AND/OR INSTALLATION OF GOODS AND/OR THE PERFORMANCE OF SERVICES AT SUCH SITE.
7. **INSPECTION/ACCEPTANCE.** All goods and services ordered pursuant to any quotation shall be subject to inspection by Buyer after delivery or performance to determine conformity with the quotation and/or purchase order and Hi-Speed's advertised or published specifications. Buyer shall have a period of thirty (30) days from shipment of goods at the delivery destination specified in the quotation within which to inspect the goods for conformity with the quotation, order and/or Hi-Speed's advertised and published specifications and to provide Hi-Speed with written notice of any discrepancy or rejection. Buyer shall have a period of thirty (30) days following completion of any services within which to inspect the services for conformity with the quotation, purchase order and/or Hi-Speed's advertised and published specifications and to provide Hi-Speed with written notice of any discrepancy or rejection. If the goods delivered or services performed do not so conform, upon delivery of notice to Hi-Speed of any discrepancy, nonconformance or rejection, Hi-Speed shall have sixty (60) days to cure the alleged discrepancy and/or nonconformance. If Hi-Speed fails to cure in this time period, Buyer shall have the right to reject such goods or services. After the cure period, goods that have been delivered and rejected, in whole or in part, shall be returned to Hi-Speed. Buyer shall notify Hi-Speed and arrange for the return of the goods as required. Should such non-conforming services be rejected Hi-Speed shall, at its sole cost, re-perform the non-conforming services. Inspection or failure to inspect on any occasion shall not affect Buyer's rights under the warranty provisions herein.
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

replace any defective or non-conforming goods in accordance with the applicable manufacturer's warranty. Warranty for any defective or incorrect parts is limited to the repair or replacement of those parts. Hi-Speed warrants that all services will conform in all material respects to the description of services identified in the quotation and will be performed in a good and workmanlike manner in accordance with industry practices and standards. Should the services be reasonably rejected or not conform with the foregoing warranties, Hi-Speed shall, at its sole cost, re-perform the defective or nonconforming services. Notwithstanding the foregoing, these warranties do not extend to goods or services to the extent that such goods have been subject to misuse, neglect or abuse not caused by Hi-Speed or have been used in violation of the approved written instructions furnished to Buyer. THE FOREGOING REPRESENTS THE SOLE AND EXCLUSIVE WARRANTY GIVEN BY HI-SPEED WITH RESPECT TO ALL GOODS SOLD AND IS IN LIEU OF ALL OTHER WARRANTIES EITHER EXPRESS OR IMPLIED. HI-SPEED EXPRESSLY DISCLAIMS ALL OTHER WARRANTIES INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR USE OR PURPOSE. BUYER WAIVES ANY CLAIM THAT THESE EXCLUSIONS OR LIMITATIONS DEPRIVE IT OF AN ADEQUATE REMEDY AT EQUITY OR LAW OR CAUSE THIS AGREEMENT TO FAIL IN ITS ESSENTIAL PURPOSE. BUYER SHALL BE ENTITLED TO NO OTHER REMEDY OTHER THAN AS SET FORTH HEREIN, REGARDLESS OF THE CLAIM OR CAUSE OF ACTION, WHETHER BASED IN CONTRACT, TORT, NEGLIGENCE, GOODS LIABILITY, STRICT LIABILITY OR OTHERWISE.

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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.
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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.
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