

# 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

### Table of Contents

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% <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 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 6212 double ball double row 6207 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		
Hi-Speed	d Industrial Service disclaims all warranties,	poth express and implied, relating to the information	on, reports, opinions and analysis disclosed to y or damages arising from the use of such

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 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 Bearing Cap Condition Drive End Bearing Cap	Fit Condition	2.8353	(P) Pass
	61.	Opposite Drive End - Endbell Bearing Bearing Cap Condition Drive End Bearing Cap Pass	Fit Condition	2.8353	(P) Pass
	61.	Opposite Drive End - Endbell Bearing Bearing Cap Condition Drive End Bearing Cap Pass End Bell Air Seal Fits	Fit Condition Opposite Drive End Bearing Cap	2.8353	(P) Pass
	61.	Opposite Drive End - Endbell Bearing Bearing Cap Condition Drive End Bearing Cap Pass	Fit Condition	2.8353	(P) Pass
	61.	Opposite Drive End - Endbell Bearing Bearing Cap Condition Drive End Bearing Cap Pass End Bell Air Seal Fits	Fit Condition Opposite Drive End Bearing Cap	2.8353	(P) Pass
	61. •	Opposite Drive End - Endbell Bearing Bearing Cap Condition Drive End Bearing Cap Pass End Bell Air Seal Fits Drive End Air Seal Na	Fit Condition Opposite Drive End Bearing Cap	2.8353	(P) Pass
	61. 62. 63.	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	Fit Condition Opposite Drive End Bearing Cap	2.8353	
	61. 62. 63.	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	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 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	Fit Condition Opposite Drive End Bearing Cap Opposite Drive End Air Seal	2.8353	
	61. 62. 63. 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. 62. 63. 64. <b>Root</b> 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. 62. 63. 64. <b>Root</b> 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. 62. 63. 64. 65. 65. 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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- 1. <u>APPLICABILITY.</u> The sale of any and all goods and/or services by Mock, Inc. d/b/a Hi-Speed Industrial Service ("Hi-Speed") shall be specifically conditioned upon and subject to the following terms and conditions which are incorporated by reference into any contracts and purchase orders with Hi-Speed, and which shall form and become a part of any agreement related thereto. Buyer's acceptance of any offer or quotation made by Hi-Speed for sale of any goods or services is expressly made subject to the terms and conditions set forth herein and to be so effective, Buyer need not sign or approve these Terms and Conditions to be bound hereunder provided a copy of same is provided to Buyer through any means. None of the terms and conditions contained herein may be added to, expanded, changed, modified, superseded or otherwise altered except as revised in writing and duly executed by Hi-Speed, and all orders received by Hi-Speed shall be governed only by the terms and conditions contained herein, notwithstanding any terms, conditions or provisions of any purchase order, release order, authorization or any other form issued by the Buyer. Hi-Speed hereby objects to any additional, modified, changed, deleted, altered or other terms and conditions not contained herein and notifies Buyer that any such terms or provisions are expressly rejected by Hi-Speed.
- 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. <u>SCOPE OF GOODS AND/OR SERVICES.</u> 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

**TermsAndConditions** 

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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.