

LR Motor Shop Repairs

Job Number 104289

Prepared for Magnolia Wastewater System (11566)

72 Columbia Road 300 Magnolia AR 71754

Table of Contents

Submersible Pump Repair Report - $LR\ MOTOR\ SHOP$

Submersible Pump Repair Report: ZDLX1BDT160130

1.0





Submersible Pump Repair Report Magnolia Wastewater System (11566)

72 Columbia Road 300 Magnolia, AR 71754

FolderID: 104289 FormID: 23742586

Location: LR MOTOR SHOP Serial Number: ZDLX1BDT160130 Description: 5 HP EBARA SUBMERSIBLE PUMP

EBARA
5 (HP)
ZDLX(DL)
ZDLX1BDT160130
230460 (V)
1740 (RPM)
60 (Hz)
3

Priorities Found: **7 - High**

23 - Good

General

Job Number

104289





































2.	Report Date	03/21/2025
3.	Customer	Magnolia Wastewater
Initial	Pump Inspection	
4.	Power Cord Wire Size	AWG
-	12 awg	
5.	Power Cord # of Conductors	
-	4	
6.	Power Cord Length	ft
-	34ft	
7.	Power Cord Condtion	
-	Dry rotted at connection head need to pull 8in through head or replace cord	



8.	Sensor Cord Wire Size 18 AWG	AWG
9.	Sensor Cord # of Conductors 5/C	
10.	Sensor Cord Length	ft
-	34ft	

Has a tear in cord and is dry rotted at connection head





(F) Fail

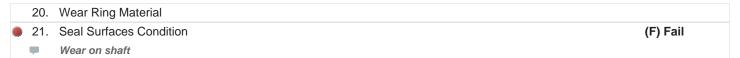
12.	Sensor Cord for Thermal Protection?	(NA) Not Applicable
13.	Sensor Cord for Water Protection	(NA) Not Applicable
14.	Bowl Condition	(P) Pass



15. Impeller Condition(P) Pass



16. Number of Wear Rings	
17. Wear Ring Condition	(N) NA
18. Wear Ring Size	in
19. Wear Ring Clearance to Impeller	in



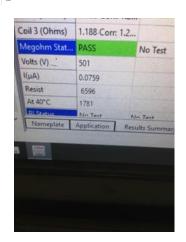


22.	Seal Type	Mechanical
	Double sided mechanical seal (special seal)	Wechanical
23.	Number of Seals	1
	Seal Material on Rotary Face	Sic and carbon
	Seal Material on Stationary Seat	ceramic and sic
26.	Elastic Component Material	Buna
	Seal OD	mm
-	Ceramic- 50mm/1.9685in Sic-57mm/2.2440in	
28.	Seal ID	in
-	Carbon-30mm/1.1810in Sic-30mm/1.1810in	
29.	Seal Sleeve Material	
30.	Seal Plate Condition	(P) Pass
3 1.	Water Sensor in Seal Cavity?	(Y) Yes
3 2.	Oil Filled Seal Cavity?	(Y) Yes
33.	Oil Filled Stator?	
-	No	
Initial	Inspection	
34.	Number of Leads	
-	T1-T12	
35.	Lead Length	8 Inches
36.	Lead Size	
37 .	Lead Condition	(P) Pass
38.	Lead Markings	
-	T1-T12	
39.	Lead Size for Oil Filled Stator	AWG
40.	Lug Size, Condition, and Type	
4 1.	Overload Required?	
-	Yes	
42.	Winding RTD's	(NA) Not Applicable



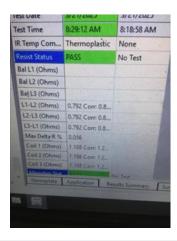


	47.	Bearing Rtd's	(NA) Not Applicable
	48.	Bearing Rtd's Condition	(NA) Not Applicable
	49.	Contamination	
		Oil in stator	
	50.	Frame Condition	(P) Pass
	51.	Fan Condition	(NA) Not Applicable
	52.	Broken or missing components	
Ir	itial	Electric Test	
	53.	Resistance to Ground	Mohm



54. Winding Resistance 1-2	Ohm
55. Winding Resistance 2-3	Ohm's
56. Winding Resistance 1-3	Ohm's

▶ 57. Resistive Imbalance



58. Hi-Pot Ua

• 59. Surge Test (P) Pass



60.	Stator Condition	needs cleaned
61.	Failure Location	seal
Initial	Rotor Inspection	
62.	Rotor Type	squirrel cage aluminum
63.	Air Gap <10% Variation	(NA) Not Applicable
64.	Number of Rotor Bars	
-	44	
65.	Number of Broken Rotor Bars	
		(P) Pass
66.	Number of Broken Rotor Bars	(P) Pass (P) Pass
66.67.	Number of Broken Rotor Bars Growler Test	

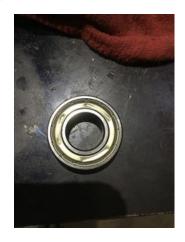
69. Bearing DE Size 6308





Normal wear

70.	Bearing DE Type	ball
71.	DE Bearing Qty.	
-	1	
72.	Bearing ODE Size	6205





Normal wear

73.	Bearing ODE Type	ball
74.	ODE Bearing Qty.	1
75.	Insulated Bearing	
76.	Lubrication Type	grease
7 7.	Grease Condition	(P) Pass
7 8.	Bearing Retainers	(Y) Yes
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	seals and bearings

	85.	Cause of Failure			
		Wear			
	86.				
	87.	Service Technician			Cw
M	achi	ne Fit Inspection Report			
		Shaft Run Out			(P) Pass
	89.	Initial Shaft Run Out			11
	90.	Final Shaft Run Out			"
	91.	DE Bearing Shaft Fit			(P) Pass
	-	1.5755-1.5754-1.5754			
	92.	DE Initial Shaft Bearing Fit Size			
		Measure 1	Measure 2	Measure 3	
	93.	DE Final Shaft Bearing Fit Size			
		Measure 1	Measure 2	Measure 3	
	9/1	ODE Bearing Shaft Fit			(F) Fail
	J-7.	0.9840-0.9839-0.9839			(i) i ali
	95	ODE Initial Shaft Bearing Fit Size			
	00.	Measure 1	Measure 2	Measure 3	
		dda.c	Modeano E	modouro o	
	96.	ODE Final Shaft Bearing Fit Size			
		Measure 1	Measure 2	Measure 3	
		DE Air Seal Shaft Fit			
	98.	DE Air Seal Shaft Size			
		Initial	Final		
	aa	ODE Air Seal Shaft Fit			
		ODE Air Seal Shaft Size			
	.00.	Initial	Final		
		mudi	Tilla		
	101.	DE Endbell Fit			(P) Pass
	-	3.5444-3.5440-3.5442			
	102.	DE Initial Endbell Fit Size			
		Measure 1	Measure 2	Measure 3	
	400				
	103.	DE Final Endbell Fit Size	Manager	Manager	
		Measure 1	Measure 2	Measure 3	
	104.	DE Endbell Fit Insulated			
		DE Endbell Air Seal Fit			
	105.	DE ETIUDEII AII OGAI FIL			

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106.	DE Endbell Air Seal Fit Size			
	Initial	Final		
107 .	ODE Endbell Fit		(F) Fail	
-	2.0486-2.0486-2.0483			
108.	ODE Initial Endbell Fit Size			
	Measure 1	Measure 2	Measure 3	
100	ODE Final Endbell Fit Size			
109.	Measure 1	Measure 2	Measure 3	
	weasure i	Wedsule 2	weasure 3	
110.	ODE Endbell Fit Insulated			
111.	ODE Endbell Air Seal Fit			
112.	ODE Endbell Air Seal Fit Size			
	Initial	Final		
	Foot Flatness			
	Foot Condition			
	Flange Condition			
116.	Service Technician		Cw	
	(Mun			
	1 W Down			
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154. Motor Paint		-		
155. Service Technician	154.	Motor Paint		
	155.	Service Technician		

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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 bee 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. <u>BILLING AND PAYMENT TERMS.</u> 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. <u>DELIVERY OF GOODS AND/OR SERVICES.</u> 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.
- **DELIVERY SITE AND TIME FOR PERFORMANCE.** Hi-Speed and Buver 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. <u>WARRANTIES.</u> 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 PARTICLAR 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.

- 9. <u>LIMITATION OF DAMAGES.</u> HI-SPEED SHALL HAVE NO LIABILITY TO BUYER WITH RESPECT TO THE SALE OR DELIVERY OF ANY GOODS OR THE REPAIR THEREOF OR WITH RESPECT TO THE SALE OR PERFORMANCE OF ANY SERVICES, FOR LOST PROFITS, SPECIAL, CONSEQUENTIAL, EXEMPLARY, PUNITIVE OR INCIDENTAL DAMAGES OF ANY KIND OR NATURE WHETHER ARISING IN CONTRACT, TORT, GOODS LIABILITY OR OTHERWISE, EVEN IF HI-SPEED WAS ADVISED OF THE POSSIBILITY OF SUCH LOSS OR DAMAGES. HI-SPEED SHALL NOT BE LIABLE FOR ANY DAMAGES OR DELAYS CAUSED BY ANY FAILURE TO MAKE ANY DELIVERY OF GOODS BY ANY EXPECTED TIME OR DATE OR THE FAILURE TO PROVIDE OR COMPLETE ANY SERVICES BY ANY EXPECTED DATE OR TIME. IN NO EVENT SHALL HI-SPEED BE LIABLE TO BUYER FOR ANY DAMAGES WHATSOEVER IN EXCESS OF THE TOTAL PRICE PAID FOR ALL GOODS AND/OR SERVICES HEREUNDER OR REFERENCED IN ANY QUOTATION OR THE PURCHASE ORDER.
- 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. **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, 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. **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.
- 16. NO INDIVIDUAL LIABILITY. 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.