

## 

# LR Motor Shop Repairs

## **Job Number 103830**

Prepared for Tyson Foods (10914)

1238 Market Street Clarksville AR 72830

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Submersible Pump Repair Report - MOTOR SHOP

Submersible Pump Repair Report: WS5034D3Q

1.0





### **Submersible Pump Repair Report** Tyson Foods (10914) 1238 Market Street

Clarksville, AR 72830

FolderID: 103830 FormID: 22470756

Submersible	Pump	Repair	Report
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Location:	MOTOR SHOP LR		
Serial Number:	WS5034D3Q		
Description:5HP GOULDS PUMP			

Make:	GOULDS
HP:	5 (HP)
Model:	WS5034D3Q
V:	460 (V)
A:	8.2 (A)
RPM:	1725 (RPM)
Hz:	60 (Hz)
Phase:	1

Priorities Found: **7 - High** 

26 - Good

#### General

1.	Job Number	103830
2	Report Date	01/02/2025















TYSON   Initial Pump Inspection   4. Power Cord Wire Size 14 AWG   5. Power Cord # of Conductors 4   6. Power Cord Length 20 ft   ▶ 7. Power Cord Condition (P) Pass   8. Sensor Cord Wire Size AWG   ▶ Na Na   9. Sensor Cord # of Conductors Na   ▶ Na 10. Sensor Cord Length ft   ▶ Na Na   11. Sensor Cord Condition (N) NA   12. Sensor Cord for Thermal Protection? (NA) Not Applicable   13. Sensor Cord for Water Protection (NA) Not Applicable			
4. Power Cord Wire Size 14 AWG  5. Power Cord # of Conductors 4  6. Power Cord Length 20 ft  7. Power Cord Condition (P) Pass  8. Sensor Cord Wire Size AWG  Na  9. Sensor Cord # of Conductors  Na  10. Sensor Cord Length ft  Na  11. Sensor Cord Condition (N) NA  12. Sensor Cord for Thermal Protection? (NA) Not Applicable	3.	Customer	TYSON
5. Power Cord # of Conductors 4 6. Power Cord Length 20 ft 7. Power Cord Condition (P) Pass 8. Sensor Cord Wire Size Na 9. Sensor Cord # of Conductors Na 10. Sensor Cord Length Na 11. Sensor Cord Condition (N) NA 12. Sensor Cord for Thermal Protection? (NA) Not Applicable	Initial	Pump Inspection	
6. Power Cord Length  7. Power Cord Condtion  (P) Pass  8. Sensor Cord Wire Size  Na  9. Sensor Cord # of Conductors  Na  10. Sensor Cord Length  Na  11. Sensor Cord Condition  (N) NA  12. Sensor Cord for Thermal Protection?	4.	Power Cord Wire Size	14 AWG
<ul> <li>7. Power Cord Condition</li> <li>8. Sensor Cord Wire Size</li> <li>Na</li> <li>9. Sensor Cord # of Conductors</li> <li>Na</li> <li>10. Sensor Cord Length</li> <li>Na</li> <li>11. Sensor Cord Condition</li> <li>(N) NA</li> <li>12. Sensor Cord for Thermal Protection?</li> <li>(NA) Not Applicable</li> </ul>	5.	Power Cord # of Conductors	4
8. Sensor Cord Wire Size  Na  9. Sensor Cord # of Conductors  Na  10. Sensor Cord Length  Na  11. Sensor Cord Condition  (N) NA  12. Sensor Cord for Thermal Protection?  (NA) Not Applicable	6.	Power Cord Length	20 ft
<ul> <li>Na</li> <li>9. Sensor Cord # of Conductors</li> <li>Na</li> <li>10. Sensor Cord Length</li> <li>ft</li> <li>Na</li> <li>11. Sensor Cord Condition</li> <li>(N) NA</li> <li>12. Sensor Cord for Thermal Protection?</li> <li>(NA) Not Applicable</li> </ul>	<b>7</b> .	Power Cord Condtion	(P) Pass
9. Sensor Cord # of Conductors  Na  10. Sensor Cord Length  Na  11. Sensor Cord Condition  (N) NA  12. Sensor Cord for Thermal Protection?  (NA) Not Applicable	8.	Sensor Cord Wire Size	AWG
<ul> <li>Na</li> <li>10. Sensor Cord Length  Na</li> <li>11. Sensor Cord Condition  (N) NA</li> <li>12. Sensor Cord for Thermal Protection?  (NA) Not Applicable</li> </ul>	-	Na	
<ul> <li>Sensor Cord Length</li> <li>Na</li> <li>Sensor Cord Condition</li> <li>Sensor Cord for Thermal Protection?</li> <li>(N) NA</li> <li>(NA) Not Applicable</li> </ul>	9.	Sensor Cord # of Conductors	
<ul> <li>Na</li> <li>Sensor Cord Condition</li> <li>Sensor Cord for Thermal Protection?</li> <li>(N) NA</li> <li>(NA) Not Applicable</li> </ul>	-	Na	
11. Sensor Cord Condition (N) NA 12. Sensor Cord for Thermal Protection? (NA) Not Applicable	10.	Sensor Cord Length	ft
12. Sensor Cord for Thermal Protection? (NA) Not Applicable	-	Na	
	11.	Sensor Cord Condition	(N) NA
13. Sensor Cord for Water Protection (NA) Not Applicable	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 (F) Fail



### Needs replacing

16.	Number of Wear Rings	
-	Na	
17.	Wear Ring Condition	(N) NA
18.	Wear Ring Size	in
-	Na	
19.	Wear Ring Clearance to Impeller	in
-	Na	
20.	Wear Ring Material	cast
21.	Seal Surfaces Condition	(F) Fail
-	Needs repair	



22. Seal Type

Mechanical



	23.	Number of Seals	2
	24.	Seal Material on Rotary Face	carbon
	25.	Seal Material on Stationary Seat	ceramic
	26.	Elastic Component Material	Buna
	27.	Seal OD	44 mm
	-	1.75 in	
	28.	Seal ID	1.125 in
	29.	Seal Sleeve Material	steel
	30.	Seal Plate Condition	(P) Pass
	31.	Water Sensor in Seal Cavity?	(NA) Not Applicable
	32.	Oil Filled Seal Cavity?	(Y) Yes
	33.	Oil Filled Stator?	(Y) Yes
I	nitial	Inspection	
	34.	Number of Leads	9
	35.	Lead Length	10 Inches
	36.	Lead Size	18
	37.	Lead Condition	(P) Pass
	38.	Lead Markings	1-9
	39.	Lead Size for Oil Filled Stator	18 AWG

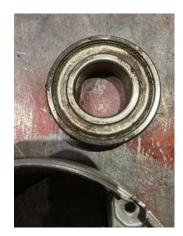
40.	Lug Size, Condition, and Type	
	Na	
41.	Overload Required?	(N) No
42.	Winding RTD's	(N) No
43.	Winding Rtd's Condition	(NA) Not Applicable
44.	Shaft Run Out	0.007
45.	Does Shaft Turn Freely	no
46.	Does Shaft Have Visible Damage	yes
47.	Bearing Rtd's	(NA) Not Applicable
48.	Bearing Rtd's Condition	(NA) Not Applicable
49.	Contamination	
	Yes	
50.	Frame Condition	(P) Pass
51.	Fan Condition	(NA) Not Applicable
52.	Broken or missing components	
	None	
nitial	Electric Test	
53.	Resistance to Ground	0 Mohm
54.	Winding Resistance 1-2	Ohm
-	Na	
55.	Winding Resistance 2-3	Ohm's
-	Na	
56.	Winding Resistance 1-3	Ohm's
	Na	
57.	Resistive Imbalance	%
-	Na	
58.	Hi-Pot	Ua
-	Na	
59.	Surge Test	(F) Fail
60.	Stator Condition	rewind and core repair





61.	Failure Location	iron
Initial	Rotor Inspection	
62.	Rotor Type	aluminum
<ul><li>63.</li></ul>	Air Gap <10% Variation	(P) Pass

	64.	Number of Rotor Bars	48
	65.	Number of Broken Rotor Bars	0
	66.	Growler Test	(P) Pass
	67.	Rotor Condition	(P) Pass
IV	echa	anical Inspection	
	68.	Bearing Manufacturer	NSK
	69.	Bearing DE Size	6206





Water contamination

70. Bearing DE Type	ball
71. DE Bearing Qty.	1
72. Bearing ODE Size	6204





Normal wear

73.	Bearing ODE Type	ball
74.	ODE Bearing Qty.	1
75.	Insulated Bearing	no
76.	Lubrication Type	oil
77.	Grease Condition	(NA) Not Applicable
78.	Bearing Retainers	(NA) Not Applicable
79.	Shaft Grounding Device	(NA) Not Applicable
80.	DE Seal	(Y) Yes
81.	DE Seal Type/Size	mechanical

82.	ODE Seal		(Y) Yes			
83.	ODE Seal Type/Size		mechanical			
Root Cause of Failure						
84.	Component Failure		seals			
-	Shaft bent and seal surface bad .Both e	and bells are bad				
85.	Cause of Failure					
	Seal failure and bearing failure made ro	tor drag iron shortening windings				
86.	Comments					
	Replace pump					
87.	Service Technician	,	RW			
//						
/						
-	Co sign CRRW					
/lachi	ne Fit Inspection Report					
	Shaft Run Out		(F) Fail			
89.	Initial Shaft Run Out		0.007 "			
90.	Final Shaft Run Out					
91.	DE Bearing Shaft Fit		(P) Pass			
92.	DE Initial Shaft Bearing Fit Size					
	Measure 1	Measure 2	Measure 3			
	1.1815	1.1815	1.1815			
93.	DE Final Shaft Bearing Fit Size					
	Measure 1	Measure 2	Measure 3			
	0050 . 01 (15)		(5) 5			
	ODE Bearing Shaft Fit		(P) Pass			
95.	ODE Initial Shaft Bearing Fit Size	M 0	Marana			
	Measure 1	Measure 2	Measure 3			
00	0.7877	0.7877	0.7877			
96.	ODE Final Shaft Bearing Fit Size	Measure 2	Magazina 2			
	Measure 1	Measure 2	Measure 3			
97.	DE Air Seal Shaft Fit		(P) Pass			
98.	DE Air Seal Shaft Size		( )			
	Initial	Final				
00	ODE Air Seal Shaft Fit		(NA) Not Applicable			
	ODE Air Seal Shaft Size		(NA) Not Applicable			
100.		Final				
	Initial	Final				
-	Na					
101.	DE Endbell Fit		(F) Fail			
	DE Initial Endbell Fit Size		( )			
	Measure 1	Measure 2	Measure 3			
	2.4419	2.4419	2.4417			

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103.	DE Final Endbell Fit Size		
	Measure 1	Measure 2	Measure 3
104.	DE Endbell Fit Insulated		(NA) Not Applicable
105.	DE Endbell Air Seal Fit		(P) Pass
106.	DE Endbell Air Seal Fit Size		
	Initial	Final	
-	Na		
107.	ODE Endbell Fit		(F) Fail
-	Resleeve or replace end bell		



118. Balance Operating Speed

119. Start Left End

108.	ODE Initial Endbell Fit Size					
	Measure 1	Measure 2	Measure 3			
	1.8547	1.8547	1.8547			
109.	ODE Final Endbell Fit Size					
	Measure 1	Measure 2	Measure 3			
110.	ODE Endbell Fit Insulated		(NA) Not Applicable			
<b>111.</b>	ODE Endbell Air Seal Fit		(P) Pass			
112.	ODE Endbell Air Seal Fit Size					
	Initial	Final				
-	Na					
<ul><li>113.</li></ul>	Foot Flatness		(NA) Not Applicable			
114.	Foot Condition		(NA) Not Applicable			
115.	Flange Condition		(P) Pass			
116.	Service Technician		RW			
Balan	cing Report					
117.	Balance Type					

120	Start Right End						
	Balancing Specification Finish Left End						
	Finish Right End						
	Service Technician	•					
	mbly and Final Test						
		Rotor and Impeller Balanced Stator Housing Refilled with Oil (if required)					
	Stator Housing Refilled with Oil (if required) Stator Pressure Test						
	Stator Pressure Test Seal Cavity Pressure Test						
	Time Under Pressure						
	Overload Continuity						
	Water Sensor Open?						
	Meggar Testing Reading						
	Surge Test						
	Hi-Pot						
	Winding Resistance						
	1-2	2-3	3-1				
136.	Test Run						
137.	Test Run Voltage						
	Phase A	Phase B	Phase C				
138.	Test Run Current						
	Phase A	Phase B	Phase C				
139.	DE Vibration Reading						
100.	Horizontal	Vertical	Axial				
	Tionzonia.	Voltical	/ Mai				
140.	ODE Vibration Reading						
	Horizontal	Vertical	Axial				
	Ambient Temp at start of Test Run	Ambient Temp at start of Test Run					
	Temp at 5 minutes						
	Temp at 10 minutes						
	Temp at 15 minutes						
	Temp at 20 minutes						
	Temp at 25 minutes						
	Temp at 30 minutes						
	Temp at 35 minutes						
	Temp at 45 minutes						
	Temp at 45 minutes						
	Temp at 50 minutes						
	Temp at 55 minutes						
	Temp at 60 minutes  Motor Paint						
	Service Technician						
100.	Service recimician						

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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.
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- 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.
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- 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.