



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

LR Motor Shop Repairs

Job Number 104698

Prepared for FUTURE FUEL CHEMICAL

2800 GAP RD HWY 394 SO
BATESVILLE AR 72501

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

Submersible Pump Repair Report

FolderID: 104698
FormID: 24702299

FUTURE FUEL CHEMICAL
2800 GAP RD HWY 394 SO
BATESVILLE, AR 72501

LR MOTOR SHOP

Priorities Found: ● 6 - High ● 45 - Good

General	
1. Job Number	104698



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2. Report Date	06/10/2025
3. Customer	FUTURE FUEL
Initial Pump Inspection	
4. Power Cord Wire Size	14 AWG
5. Power Cord # of Conductors	6
6. Power Cord Length	70 ft
7. Power Cord Condition	(F) Fail
8. Sensor Cord Wire Size	AWG
9. Sensor Cord # of Conductors	
10. Sensor Cord Length	ft
11. Sensor Cord Condition	(N) NA
12. Sensor Cord for Thermal Protection?	(N) No
13. Sensor Cord for Water Protection	(N) No
14. Bowl Condition	(P) Pass
15. Impeller Condition	(P) Pass
16. Number of Wear Rings	1
17. Wear Ring Condition	(P) Pass
18. Wear Ring Size	in
19. Wear Ring Clearance to Impeller	in
20. Wear Ring Material	
21. Seal Surfaces Condition	(P) Pass
22. Seal Type	Mechanical
23. Number of Seals	2
24. Seal Material on Rotary Face	tungsten
25. Seal Material on Stationary Seat	tungsten
26. Elastic Component Material	Buna
27. Seal OD	59.8 mm
28. Seal ID	in
35 mm	
29. Seal Sleeve Material	
30. Seal Plate Condition	(P) Pass
31. Water Sensor in Seal Cavity?	(N) No
32. Oil Filled Seal Cavity?	(Y) Yes

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● 33. Oil Filled Stator?	(N) No
Initial Inspection	
34. Number of Leads	12
35. Lead Length	12 Inches
36. Lead Size	16
● 37. Lead Condition	(F) Fail
38. Lead Markings	1-12
39. Lead Size for Oil Filled Stator	AWG
40. Lug Size, Condition, and Type	
● 41. Overload Required?	(Y) Yes
● 42. Winding RTD's	(N) No
● 43. Winding Rtd's Condition	(NA) Not Applicable
44. Shaft Run Out	0.0002
45. Does Shaft Turn Freely	yes
46. Does Shaft Have Visible Damage	no
● 47. Bearing Rtd's	(N) No
● 48. Bearing Rtd's Condition	(NA) Not Applicable
49. Contamination <i>Water</i>	
● 50. Frame Condition	(P) Pass
● 51. Fan Condition	(NA) Not Applicable
52. Broken or missing components <i>None</i>	
Initial Electric Test	
53. Resistance to Ground	0 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	(F) Fail
60. Stator Condition	rewind
61. Failure Location	edge of slot
Initial Rotor Inspection	
62. Rotor Type	aluminum
● 63. Air Gap <10% Variation	(NA) Not Applicable
64. Number of Rotor Bars	26
65. Number of Broken Rotor Bars	0
● 66. Growler Test	(P) Pass



Mechanical Inspection

68. Bearing Manufacturer	SKF
69. Bearing DE Size	3307 ZZ



70. Bearing DE Type	ball
71. DE Bearing Qty.	1
72. Bearing ODE Size	6207 ZZ
73. Bearing ODE Type	ball
74. ODE Bearing Qty.	1
75. Insulated Bearing	no
76. Lubrication Type	grease
77. Grease Condition	(NA) Not Applicable
78. Bearing Retainers	(Y) Yes
79. Shaft Grounding Device	(N) No
80. DE Seal	(Y) Yes

81. DE Seal Type/Size

tungsten and ceramic 35mm
shaft seat 59.8 mm



82. ODE Seal

(Y) Yes

83. ODE Seal Type/Size

tungsten and tungsten 35 mm
shaft 59.8 mm seat



Root Cause of Failure

84. Component Failure

de bearing and seals also
winding bad

85. Cause of Failure

No grease in bearing

86. Comments

Needs seals bearings and rewind power cord

87. Service Technician

RW

Co sign: CRW

Machine Fit Inspection Report

88. Shaft Run Out

(P) Pass

89. Initial Shaft Run Out

"

.0002

90. Final Shaft Run Out

0.0002 "

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91.	DE Bearing Shaft Fit	(P) Pass	
92.	DE Initial Shaft Bearing Fit Size		
	Measure 1	Measure 2	Measure 3
	1.3785	1.3785	1.3785
93.	DE Final Shaft Bearing Fit Size		
	Measure 1	Measure 2	Measure 3
	Na		
94.	ODE Bearing Shaft Fit	(P) Pass	
95.	ODE Initial Shaft Bearing Fit Size		
	Measure 1	Measure 2	Measure 3
	1.3784	1.3784	1.3784
96.	ODE Final Shaft Bearing Fit Size		
	Measure 1	Measure 2	Measure 3
	Na		
97.	DE Air Seal Shaft Fit	(P) Pass	
98.	DE Air Seal Shaft Size		
	Initial	Final	
	Na		
99.	ODE Air Seal Shaft Fit	(P) Pass	
100.	ODE Air Seal Shaft Size		
	Initial	Final	
	Na		
101.	DE Endbell Fit	(P) Pass	
102.	DE Initial Endbell Fit Size		
	Measure 1	Measure 2	Measure 3
	3.1498	3.1498	3.1498
103.	DE Final Endbell Fit Size		
	Measure 1	Measure 2	Measure 3
	Na		
104.	DE Endbell Fit Insulated	(N) No	
105.	DE Endbell Air Seal Fit	(P) Pass	
106.	DE Endbell Air Seal Fit Size		
	Initial	Final	
	Pass		
107.	ODE Endbell Fit	(P) Pass	
108.	ODE Initial Endbell Fit Size		
	Measure 1	Measure 2	Measure 3
	2.8345	2.8345	2.8345
109.	ODE Final Endbell Fit Size		
	Measure 1	Measure 2	Measure 3
	Na		

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● 110. ODE Endbell Fit Insulated	(N) No
● 111. ODE Endbell Air Seal Fit	(P) Pass
112. ODE Endbell Air Seal Fit Size	
Initial	Final
Pass	
● 113. Foot Flatness	(P) Pass
● 114. Foot Condition	(P) Pass
● 115. Flange Condition	(P) Pass
116. Service Technician	
Balancing Report	
117. Balance Type	
118. Balance Operating Speed	RPM
119. Start Left End	Mills
120. Start Right End	Mills
121. Balancing Specification	
122. Finish Left End	Mills
123. Finish Right End	Mills
124. Service Technician	
Assembly and Final Test	
● 125. Rotor and Impeller Balanced	(N) No
● 126. Stator Housing Refilled with Oil (if required)	(Y) Yes
● 127. Stator Pressure Test	(P) Pass



● 128. Seal Cavity Pressure Test	(P) Pass
129. Time Under Pressure	5 min
● 130. Overload Continuity	(P) Pass
● 131. Water Sensor Open?	(N) No
Na	



133. Surge Test	(P) Pass		
134. Hi-Pot	Ua		
<div><div></div>A</div>			
135. Winding Resistance			
1-2	2-3	3-1	
<div><div></div>Na</div>			
136. Test Run	(P) Pass		
137. Test Run Voltage			
Phase A	Phase B	Phase C	
454	452	456	



138. Test Run Current			
Phase A	Phase B	Phase C	
5.1	4.8	5.1	




Co sign RR

139. DE Vibration Reading			
Horizontal	Vertical	Axial	
Na			
140. ODE Vibration Reading			
Horizontal	Vertical	Axial	
Na			
141. Ambient Temp at start of Test Run			Degrees F.
Na			
142. Temp at 5 minutes			Degrees F.
Na			
143. Temp at 10 minutes			Degrees F.
Na			
144. Temp at 15 minutes			Degrees F.
Na			
145. Temp at 20 minutes			Degrees F.
Na			
146. Temp at 25 minutes			Degrees F.
Na			
147. Temp at 30 minutes			Degrees F.
Na			
148. Temp at 35 minutes			Degrees F.
Na			
149. Temp at 40 minutes			Degrees F.
Na			
150. Temp at 45 minutes			Degrees F.
Na			
151. Temp at 50 minutes			Degrees F.
Na			
152. Temp at 55 minutes			Degrees F.

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Na	
153. Temp at 60 minutes	Degrees F.
Na	
154. Motor Paint	(P) Pass



155. Service Technician	RW
<div>  </div> <div> Co sign TRH </div>	



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

AC Random Coil Rewind Report

FolderID: 104698
FormID: 24778131

FUTURE FUEL CHEMICAL
2800 GAP RD HWY 394 SO
BATESVILLE, AR 72501

LR MOTOR SHOP

Priorities Found: 1 - High 4 - Good

General

1. Job Number	104698
2. Report Date	06/11/2025
3. Customer	Future Fuel

Stator Winding

4. Core Length	4.5 "
5. Core ID	5.25 "
6. Back Iron Depth	0.75 "
7. Slot Depth	0.875 "
8. Tooth Width	0.25 "
9. Number of Vents	
10. Vent Width	
11. Before Burnout Core loss	(P) Pass
12. Flux Before Burnout	
13. Watts before burnout	
14. Watts loss per lb. before burnout	2.02 W/lbs.
15. After Burnout Core Loss	(P) Pass
16. Flux After burnout	
17. Watts After Burnout	
18. Watts loss per lb After Burnout	0.673 W/lbs.
19. Core Iron Condition	
20. RTD's	(N) No
21. RTD's Reading	Ohm's
22. Motor Heaters	
23. Heater Qty.	
24. Heater Voltage	Volts
25. Heater Wattage	Watts
26. Thermistors	
27. Number of Poles	4
28. Slots	36
29. Number of Coils	
18	
30. Coil Weight	
31. Lead Markings	1-12 & overloads
32. Grouping	6of3

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33. Multiple Wires	(Y) Yes
34. Wire Size 4#20	
35. Turns per coil	28
36. Pitch 1 to: 8-10-12	
37. Connection 12 Lead 1circuit 1wye 460 volts	
38. Lead Length 8"	"
39. Lead Size	
40. Number of Leads	12
41. Megger Reading After Rewind	4381 Mohms
42. Coil Machine Slot	
43. Coil Machine Tip	
44. Coil Machine Pitch	
45. Hi Pot Reading After Rewind	0.41578 Ua
46. Surge Pattern After Rewind	(P) Pass



47. Service Technician

LE 2.25
OE 2"
15LBS #20
4' #14EPDM LEAD WIRE
2' #18EPDM LEAD WIRE For Overloads





STANDARD TERMS AND CONDITIONS FOR PURCHASE OF GOOD AND/OR SERVICES

1. **APPLICABILITY.** 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.
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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.
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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

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.

9. **LIMITATION OF DAMAGES.** 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. **SEVERABILITY.** 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, 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.
14. **NONWAIVER.** 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.