



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

LR Motor Shop Repairs

Job Number 100796

Prepared for Georges Inc

1810 S. St. Louis Street
Batesville AR 72501

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Split Case Centrifugal Pump Report - *Shop*

Split Case Centrifugal Pump Report: *C1735000580*

1.0

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Millington, Tn 38053
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Split Case Centrifugal Pump Report

Georges Inc
1810 S. St. Louis Street
Batesville, AR 72501

FolderID: 100796
FormID: 15738912

Split Case Centrifugal Pump Report

Location: Shop
Serial Number: C1735000580
Description: BUSCH WV 1000 VACUUM PUMP
3600RPM

Make: BUSCH
Model: WV 1000 C 001
Serial Number: C1735000580
RPM: 3600

Priorities Found: ● 1 - High ● 6 - Good

General

1. Job Number



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2.	Report Date	
3.	Customer	
Initial Inspection		
4.	Bowl Condition	(N) NA
● 5.	Impeller Condition	(P) Pass
6.	Wear Ring Condition	(N) NA
7.	Wear Ring Material	
8.	Seal Surfaces Condition	
9.	Number of Seals	2

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10. Seal Type	Lip
<div> <div></div> 2 - 45*60*8/6 lip seals on input shaft </div>	
11. Seal Material on Rotary Face	
12. Seal Material on Stationary Seat	
13. Mechanical Seal ID/Shaft Diameter	
14. Mechanical Seal OD	
15. Mechanical Seal Length	
16. Lip Seal Elastic Material	
17. Lip Seal ID/Shaft Diameter	
18. Lip Seal OD/Bore Diameter	
19. Lip Seal Height	
20. Seal Sleeve Material	
21. Seal Plate Condition	
22. Seal Cavity	
23. Shaft Run Out	
24. Does Shaft Turn Freely	yes
25. Does Shaft Have Visible Damage	
26. Contamination	Some rust
27. Frame Condition	(P) Pass
28. Fan Condition	(NA) Not Applicable
29. Broken or missing components	None
Mechanical Inspection	
30. Bearing Manufacture	SKF
31. Bearing DE Size	2207 double row ball
32. Bearing DE Type	angular contact self aligning
33. DE Bearing Qty.	2
34. Bearing ODE Size	NU2207
35. Bearing ODE Type	roller
36. ODE Bearing Qty.	2
37. Insulated Bearing	(NA) Not Applicable
38. Lubrication Type	oil
39. Grease Condition	(NA) Not Applicable
40. Bearing Retainers	(N) No
41. Shaft Grounding Device	(NA) Not Applicable
42. DE Seal	(Y) Yes

43. DE Seal Type/Size

lip 45*60*8/6 (2)

 *Machined new seal sleeve. G.M.*



44. ODE Seal

(NA) Not Applicable

45. ODE Seal Type/Size

46. Wear Ring Size

in

47. Clearances on Wear Ring to Impeller

48. Number of Wear Rings

49. Wear Ring Material

Root Cause of Failure

50. Component Failure

input shaft bearing bad, thrust
on coupling

51. Cause of Failure

Improper coupling alignment on motor

52. Comments

*Seal sleeve required from manufacturer, 2-NU2207 bearings, 2 2207 double row angular contact self aligning bearings, 12-10mm*80mm bolts, 2- 45*60*8/6 lip seals*

53. Service Technician

David Maclin

Machine Fit Inspection Report

54. Shaft Run Out

55. Shaft Run Out Measurements

Initial

Final

56. DE Bearing Shaft Fit

57. DE Initial Shaft Bearing Fit Size

Measure 1

Measure 2

Measure 3

58. DE Final Shaft Bearing Fit Size

Measure 1

Measure 2

Measure 3

59. ODE Bearing Shaft Fit

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1.4

60. ODE Initial Shaft Bearing Fit Size		
Measure 1	Measure 2	Measure 3
61. ODE Final Shaft Bearing Fit Size		
Measure 1	Measure 2	Measure 3
62. DE Air Seal Shaft Fit		
63. DE Air Seal Shaft Size		
Initial	Final	
64. ODE Air Seal Shaft Fit		
65. ODE Air Seal Shaft Size		
Initial	Final	
66. DE Endbell Fit		
67. DE Initial Endbell Fit Size		
Measure 1	Measure 2	Measure 3
68. DE Final Endbell Fit Size		
Measure 1	Measure 2	Measure 3
69. DE Endbell Fit Insulated		
70. DE Endbell Air Seal Fit		
71. DE Endbell Air Seal Fit Size		
Initial	Final	
72. ODE Endbell Fit		
73. ODE Initial Endbell Fit Size		
Measure 1	Measure 2	Measure 3
74. ODE Final Endbell Fit Size		
Measure 1	Measure 2	Measure 3
75. ODE Endbell Fit Insulated		
76. ODE Endbell Air Seal Fit		
77. ODE Endbell Seal Fit Size		
Initial	Final	
78. Foot Flatness		
79. Foot Condition		
80. Flange Condition		
81. Service Technician		
Balancing Report		
82. Balance Type		
83. Balance Operating Speed		
84. Starting Measurements		
Left End	Right End	
85. Balancing Specification		

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86. Finished Measurements	
Left End	Right End
87. Service Technician	
Assembly and Final Test	
88. Impeller Balanced	



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89.	Seal Cavity Test Pressure	
90.	Pressure Test Time	
91.	Painted	
92.	Final Assembly Completed	(Y) Yes

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93. 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 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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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.
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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.