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LR Motor Shop Repairs

**Job Number 102000**

Prepared for MIDDLETON INCORPORATED

P.O. BOX 506  
BRYANT AR 72089

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

**AC Inspection as Found**  
**MIDDLETON INCORPORATED**  
P.O. BOX 506  
BRYANT, AR 72089

FolderID: 102000  
FormID: 18181591

**AC Inspection - Rev. 2**

**Location:** MOTOR SHOP LR

**Serial Number:** Z1202271456

**Description:** 15HP BALDOR 1200RPM 284JM  
PACO PUMP 10-60123-1A0001-1823

**Hi-Speed Job Number:** 102000

**Manufacturer:** Baldor

**Product Number:** JMM2524T

**Spec/ID #:** 39N090W953

**Serial Number:** Z1202271456

**HP/kW:** 15 (HP)

**RPM:** 1175 (RPM)

**Frame:** 284JM

**Voltage:** 230 / 460

**Current:** 42.6/21.3

**Phase:** Three

**Hz:** 60 (Hz)

**Service Factor:** 1.15

**Enclosure:** ODP

**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:

**Overall Condition**

1. Report Date
2. Nameplate Picture



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3.	Photos of all six sides of the machine.
4.	Describe the Overall Condition of the Equipment as Received
5.	Distance from the end of the shaft to the Coupling/Sheave
<b>Initial Mechanical/Electrical</b>	
6.	Does Shaft Turn Freely?
7.	Does Shaft Have Visible Damage?
8.	Assembled Shaft Runout
9.	Assembled Shaft End Play
10.	Air Gap Variation <10%

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11. Lead Condition		
12. Lead Length		
13. Lead Numbers		
14. Frame Condition		
15. Fan Condition		
16. Broken or Missing Components		
<b>Initial Electrical Inspection</b>		
17. Insulation Resistance/Megger		
18. Winding Resistance		
1-2	1-3	2-3
19. Perform Surge Test		
20. Number of Stator Slots		
21. Stator Condition		
22. Stator Thermistors/Ohms		
23. Stator Overloads/Ohms		
<b>Mechanical Inspection</b>		
24. Drive End Bearing Brand		
25. Drive End Bearing Number-		
26. Drive End Bearing Qty.		
27. Drive End Bearing Type		
28. Drive End Lubrication Type		
29. Drive End Bearing Insulation or Grounding Device?		
30. Drive End Wavy Washer/Snap-Ring Other Retention Device?		
31. Drive End Bearing Condition		
32. Opposite Drive End Bearing Brand		
33. Opposite Drive End Bearing Number-		
34. Opposite Drive End Bearing Qty.		
35. Opposite Drive End Bearing Type		
36. Opposite Drive End Lubrication Type		
37. Opposite Drive End Bearing Insulation or Grounding Device?		
38. Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?		
39. Opposite Drive End Bearing Condition		
40. Drive End Seal		
41. Opposite Drive End Seal		
<b>Rotor Inspection</b>		
42. Rotor Type/Material		
43. Growler Test		
44. Number of Rotor Bars		
45. Rotor Condition		
46. List the Parts needed for the Repair Below		
47. Signature of Technician that Disassembled Motor		
<b>Mechanical Fits- Rotor</b>		
48. Shaft Runout		
49. Rotor Runout		
Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing

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50. Coupling Fit Closest to Bearing Housing		
0 Degrees	90 Degrees	120 Degrees
51. Coupling Fit Closest to the end of the Shaft		
0 Degrees	60 Degrees	120 Degrees
52. Drive End Bearing Shaft Fit		
0 Degrees	60 Degrees	120 Degrees
53. Drive End Bearing Shaft Fit Condition		
54. Opposite Drive End Bearing Shaft Fit		
0 Degrees	60 Degrees	120 Degrees
55. Opposite Drive End Bearing Shaft Fit Condition		
56. Shaft Air Seal Fits		
Drive End Air Seal	Opposite Drive End Air Seal	
<b>Mechanical Fits- Bearing Housings</b>		
57. Drive End - Endbell Bearing Fit		
0 Degrees	60 Degrees	120 Degrees
58. Drive End - Endbell Bearing Fit Condition		
59. Opposite Drive End - Endbell Bearing Fit		
0 Degrees	60 Degrees	120 Degrees
60. Opposite Drive End - Endbell Bearing Fit Condition		
61. Bearing Cap Condition		
Drive End Bearing Cap	Opposite Drive End Bearing Cap	
62. End Bell Air Seal Fits		
Drive End Air Seal	Opposite Drive End Air Seal	
63. List Machine Work Needed Below		
64. Technician		
<b>Dynamic Balance Report</b>		
65. Rotor Weight and Balance Grade		
Rotor Weight	Balance Grade	
66. Initial Balance Readings		
Drive End	Opposite Drive End	
67. Final Balance Readings		
Drive End	Opposite Drive End	
68. Technician		
<b>Rewind</b>		
69. Core Test Results - Watts loss per Pound		
Pre-Burnout	Post Burnout	

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70. Core Hot Spot Test		
Pre-Burnout	Post-Burnout	
71. Post Rewind Electrical Test- Insulation Resistance		
72. Post Rewind Polarization Index		
73. Post Rewind Winding Resistance		
1-2	1-3	2-3
74. Post Rewind Surge Test		
75. Post Rewind Hi-Pot		
76. Technician		
<b>Root Cause of Failure</b>		
77. Failure locations		
78. Root cause of failure		
<b>Mechanical Fits- Rotor - Post Repair</b>		
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 Housing Post Repair		
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 Repair		
0 Degrees	60 Degrees	120 Degrees
84. Opposite Drive End Bearing Shaft Fit Post Repair		
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		
<b>Mechanical Fits- Bearing Housings - Post Repair</b>		
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		

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Assembly		
92. QC Check All Parts for Cleanliness Prior to Assembly		
93. Photograph All Major Components prior 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 Per Second		
Horizontal	Vertical	Axial
100. Opposite Drive End Vibration Readings - Inches Per Second		
Horizontal	Vertical	Axial
101. Ambient Temperature - Fahrenheit		
102. Drive End Bearing Temps - Fahrenheit		
5 Minutes	10 Minutes	15 Minutes
103. Opposite Drive End Bearing Temps - Fahrenheit		
5 Minutes	10 Minutes	15 Minutes
104. Document Final Condition with Pictures after paint		
105. Final Pics and QC Review		



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

## Split Case Centrifugal Pump Report

MIDDLETON INCORPORATED

P.O. BOX 506  
BRYANT, AR 72089

FolderID: 102000  
FormID: 18181594

### Split Case Centrifugal Pump Report

Location: MOTOR SHOP LR

Serial Number: 1971079824-10

Description: PACO PUMP 10.10" IMP DIAM

Make: PACO

Model: 10-60123-1A0001-1823

Serial Number: 1971079824-10

RPM: 1175

GPM: 825

Head: 40 (ft)

Priorities Found: 19 - Good

### General

1. Job Number	102000
2. Report Date	10/18/2023
3. Customer	Middleton

### Initial Inspection


4. Bowl Condition	(P) Pass
5. Impeller Condition	(P) Pass
6. Wear Ring Condition	(P) Pass
7. Wear Ring Material	bronze
8. Seal Surfaces Condition	(P) Pass
9. Number of Seals	1
10. Seal Type	Mechanical
11. Seal Material on Rotary Face	ceramic
12. Seal Material on Stationary Seat	carbon
13. Mechanical Seal ID/Shaft Diameter	1.75 in
14. Mechanical Seal OD	2.5 in
15. Mechanical Seal Length	0 in
16. Lip Seal Elastic Material	Buna
17. Lip Seal ID/Shaft Diameter	0 in
18. Lip Seal OD/Bore Diameter	0 in
19. Lip Seal Height	0 in
20. Seal Sleeve Material	bronze
21. Seal Plate Condition	(P) Pass
22. Seal Cavity	Water Lubricated
23. Shaft Run Out	0
24. Does Shaft Turn Freely	yes
25. Does Shaft Have Visible Damage	no
26. Contamination	None
27. Frame Condition	(P) Pass
28. Fan Condition	(NA) Not Applicable

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29. Broken or missing components	<i>None</i>		
<b>Mechanical Inspection</b>			
30. Bearing Manufacture	n/a		
31. Bearing DE Size			
32. Bearing DE Type			
33. DE Bearing Qty.			
34. Bearing ODE Size			
35. Bearing ODE Type			
36. ODE Bearing Qty.			
37. Insulated Bearing			
38. Lubrication Type			
39. Grease Condition			
40. Bearing Retainers			
41. Shaft Grounding Device			
42. DE Seal			
43. DE Seal Type/Size			
44. ODE Seal			
45. ODE Seal Type/Size			
46. Wear Ring Size			
47. Clearances on Wear Ring to Impeller			
48. Number of Wear Rings			
49. Wear Ring Material			
<b>Root Cause of Failure</b>			
50. Component Failure	motor		
51. Cause of Failure	<i>N/a</i>		
52. Comments	<i>Replace motor</i>		
53. Service Technician	David Maclin		
			
<b>Machine Fit Inspection Report</b>			
54. Shaft Run Out	(P) Pass		
55. Shaft Run Out Measurements			
Initial	Final		
0	0		
56. DE Bearing Shaft Fit	(NA) Not Applicable		
57. DE Initial Shaft Bearing Fit Size			
Measure 1	Measure 2	Measure 3	
0	0	0	
58. DE Final Shaft Bearing Fit Size			
Measure 1	Measure 2	Measure 3	
0	0	0	

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59. ODE Bearing Shaft Fit	(NA) Not Applicable	
60. ODE Initial Shaft Bearing Fit Size		
Measure 1	Measure 2	Measure 3
0	0	0
61. ODE Final Shaft Bearing Fit Size		
Measure 1	Measure 2	Measure 3
0	0	0
62. DE Air Seal Shaft Fit	(NA) Not Applicable	
63. DE Air Seal Shaft Size		
Initial	Final	
0	0	
64. ODE Air Seal Shaft Fit	(NA) Not Applicable	
65. ODE Air Seal Shaft Size		
Initial	Final	
0	0	
66. DE Endbell Fit	(NA) Not Applicable	
67. DE Initial Endbell Fit Size		
Measure 1	Measure 2	Measure 3
0	0	0
68. DE Final Endbell Fit Size		
Measure 1	Measure 2	Measure 3
0	0	0
69. DE Endbell Fit Insulated	(NA) Not Applicable	
70. DE Endbell Air Seal Fit	(NA) Not Applicable	
71. DE Endbell Air Seal Fit Size		
Initial	Final	
0	0	
72. ODE Endbell Fit	(NA) Not Applicable	
73. ODE Initial Endbell Fit Size		
Measure 1	Measure 2	Measure 3
0	0	0
74. ODE Final Endbell Fit Size		
Measure 1	Measure 2	Measure 3
0	0	0
75. ODE Endbell Fit Insulated	(NA) Not Applicable	
76. ODE Endbell Air Seal Fit	(NA) Not Applicable	
77. ODE Endbell Seal Fit Size		
Initial	Final	
0	0	
78. Foot Flatness	(NA) Not Applicable	
79. Foot Condition	(NA) Not Applicable	
80. Flange Condition	(P) Pass	
81. Service Technician	David Maclin	



### Balancing Report

82. Balance Type

83. Balance Operating Speed

84. Starting Measurements

Left End

Right End

85. Balancing Specification

86. Finished Measurements

Left End

Right End

87. Service Technician

### Assembly and Final Test

88. Impeller Balanced

89. Seal Cavity Test Pressure

90. Pressure Test Time

91. Painted

92. Final Assembly Completed

93. Service Technician



## 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.
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. **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



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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.
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.
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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.