

LR Motor Shop Repairs

Job Number 102106

Prepared for Motion Industries (10716)

PO Box 698 Gonzales LA 70737

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AC Inspection as Found - MOTOR SHOP LR

AC Inspection - Rev. 2: F1405285891

1.0



FolderID: 102106 FormID: 18481808



AC Inspection as Found

Motion Industries (10716)

PO Box 698 Gonzales, LA 70737

Serial Number:

AC Inspection - Rev. 2

Location: MOTOR SHOP LR

F1405285891 Description: 10HP BALDOR 1800RPM 215T XP

Hi-Speed Job Number:	102106
Manufacturer:	Baldor
Product Number:	EM7070T
Spec/ID #:	37H239S518G2
Serial Number:	F1405285891
HP/kW:	10 (HP)
RPM:	1770 (RPM)
Frame:	215T
Voltage:	230 / 460
Current:	24/12
Phase:	Three
Hz:	60 (Hz)
Service Factor:	1.00
Enclosure:	XP
J-box Included:	Complete
Coupling/Sheave:	Coupling
Bearing RTDs:	No
Stator RTDs:	No
Repair Stage:	Final
Heaters:	No
Winding Type :	Random Wound
Bearing Type:	Rolling Element

Priorities Found: 5 - High

5 - Good

Overall Condition

Report Date

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 Dirty	
5.	Distance from the end of the shaft to the Coupling/Sheave	inches
-	Na	
Initial	Mechanical/Electrical	
6.	Does Shaft Turn Freely?	(Yes) Yes
7.	Does Shaft Have Visible Damage?	(No) No
8.	Assembled Shaft Runout	Inches
-	Na	
9.	Assembled Shaft End Play	inches
-	Na	
10.	Air Gap Variation <10%	
-	Na	
11.	Lead Condition	(NA) Not Applicable
-	Rewind	
12.	Lead Length	10 Inches
13.	Lead Numbers	9
14.	Frame Condition	pass
15.	Fan Condition	(P) Pass



16. Broken or Missing Components	na		
Initial Electrical Inspection			

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17.	Insulation Resistance/Megger	Megohms
•	Na	
18.	Winding Resistance	
	1-2 1-3	2-3
	Na	
19.	Perform Surge Test	(NA) Not Applicable
	Rewind	(1474) Not Applicable
20.	Number of Stator Slots	36
21.	Stator Condition	pass
22.	Stator Thermistors/Ohms	расс
	Na	
23.	Stator Overloads/Ohms	yes need replaced
lecha	anical Inspection	7
	Drive End Bearing Brand	fag
25.	Drive End Bearing Number-	6307
26.	Drive End Bearing Qty.	1
27.	Drive End Bearing Type	(Ball) Ball Bearing
28.		(Grease) Grease Lubricated
29.	Drive End Bearing Insulation or Grounding Device?	na
30.	Drive End Wavy Washer/Snap-Ring Other Retention Device?	na
31.	Drive End Bearing Condition	signs of frosting
32.	Opposite Drive End Bearing Brand	na
33.	Opposite Drive End Bearing Number-	6206
34.	Opposite Drive End Bearing Qty.	1
35.	Opposite Drive End Bearing Type	(Ball) Ball Bearing
36.	Opposite Drive End Lubrication Type	(Grease) Grease Lubricated
37.	Opposite Drive End Bearing Insulation or Grounding Device?	na
38.	Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?	wavy washer
39.	Opposite Drive End Bearing Condition	signs of frosting
40.	Drive End Seal	na
41.	Opposite Drive End Seal	na
otor	Inspection	
42.	Rotor Type/Material	(Squirrel Aluminum) Squirrel Cage Aluminum Die Cast
43.	Growler Test	(Pass) Pass
44.	Number of Rotor Bars	32
45.	Rotor Condition	pass
46.	List the Parts needed for the Repair Below	
	6307 6206 Bearing sleeve for ODE bearing fit	
47.	Signature of Technician that Disassembled Motor	Cw
	Mozer	

Mechanical Fits- Rotor

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48	Shaft Runout		0.002 i	nches
	Rotor Runout			
	Drive End Bearing Fit	Rotor Body	Opposite Drive End Bea	rina
	Dive Zila Bearing i k	Note: Deay	opposite Birro Ena Boa	9
-	Na			
50	Coupling Fit Closest to Bearing Housi	ng		
	0 Degrees	90 Degrees	120 Degrees	
-	Na			
51	Coupling Fit Closest to the end of the	Shaft		
	0 Degrees	60 Degrees	120 Degrees	
	Na			
	Drive End Bearing Shaft Fit			
02	0 Degrees	60 Degrees	120 Degrees	
	1.3783	1.3782	1.3783	
53) Pass
_	Opposite Drive End Bearing Shaft Fit		(,	, i uoo
	0 Degrees	60 Degrees	120 Degrees	
	1.1814	1.1814	1.1813	
55) Pass
56	Shaft Air Seal Fits			,
	Drive End Air Seal	Opposite Drive End Air Seal		
-	Na			
Mech	nanical Fits- Bearing Housings			
57	Drive End - Endbell Bearing Fit			
	0 Degrees	60 Degrees	120 Degrees	
	3.1502	3.1502	3.15	
	Drive End - Endbell Bearing Fit Condi		(P) Pass
59	Opposite Drive End - Endbell Bearing			
	0 Degrees	60 Degrees	120 Degrees	
	2.4428	2.442	2.4432	
• 60	11	Fit Condition	(F) Fail
61	Bearing Cap Condition			
	Drive End Bearing Cap	Opposite Drive End Bearing Cap		
-	Na			
62	End Bell Air Seal Fits			
	Drive End Air Seal	Opposite Drive End Air Seal		
	Ma			
• 00	Na			
6 3				
	ODE end bell bearing fit			

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64. Technician Cw how **Dynamic Balance Report** 65. Rotor Weight and Balance Grade Balance Grade Rotor Weight 66. Initial Balance Readings Drive End Opposite Drive End 67. Final Balance Readings Drive End Opposite Drive End 68. Technician Rewind 69. Core Test Results - Watts loss per Pound Pre-Burnout Post Burnout 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 1-3 2-3 74. Post Rewind Surge Test 75. Post Rewind Hi-Pot 76. Technician **Root Cause of Failure** 77. Failure locations Windings, bearings, and ODE end bell bearing fit 78. Root cause of failure Extensive wear and water contamination caused the windings to short Mechanical Fits- Rotor - Post Repair 79. Shaft Runout Post Repair 80. Rotor Runout Post Repair Opposite Drive End Bearing Drive End Bearing Fit Rotor Body 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

60 Degrees

0 Degrees

120 Degrees

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83.	B. 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			
	· •	Post Panair		
	chanical Fits- Bearing Housings - Post Repair 87. Drive End - Endbell Bearing Fit Post Repair			
07.	0 Degrees	60 Degrees	120 Degrees	
	0 Degrees	00 Degrees	120 Degrees	
88.	Opposite Drive End - Endbell Bearing	Fit Post Repair		
	0 Degrees	60 Degrees	120 Degrees	
	3	-0	3	
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		
04	End Bell Penair Sign-off			
	91. End Bell Repair Sign-off			
Asser	mbly	rior to Assambly		
Asser	nbly QC Check All Parts for Cleanliness P	•		
92. 93.	nbly QC Check All Parts for Cleanliness P Photograph All Major Components pr	•		
92. 93. 94.	nbly QC Check All Parts for Cleanliness P Photograph All Major Components pr Final Insulation Resistance Test	•		
92. 93. 94. 95.	Photograph All Major Components pr Final Insulation Resistance Test Assembled Shaft Endplay	•		
92. 93. 94. 95.	Photograph All Major Components pr Final Insulation Resistance Test Assembled Shaft Endplay Assembled Shaft Runout	•		
92. 93. 94. 95.	Photograph All Major Components profinal Insulation Resistance Test Assembled Shaft Endplay Assembled Shaft Runout Test Run Voltage	ior to assembly	Volte	
92. 93. 94. 95.	Photograph All Major Components pr Final Insulation Resistance Test Assembled Shaft Endplay Assembled Shaft Runout	·	Volts	
92. 93. 94. 95. 96. 97.	Photograph All Major Components profinal Insulation Resistance Test Assembled Shaft Endplay Assembled Shaft Runout Test Run Voltage	ior to assembly	Volts	
92. 93. 94. 95. 96. 97.	Photograph All Major Components profinal Insulation Resistance Test Assembled Shaft Endplay Assembled Shaft Runout Test Run Voltage Volts Test Run Amperage	volts		
92. 93. 94. 95. 96. 97.	Photograph All Major Components profinal Insulation Resistance Test Assembled Shaft Endplay Assembled Shaft Runout Test Run Voltage Volts	ior to assembly	Volts	
92. 93. 94. 95. 96. 97.	Photograph All Major Components profinal Insulation Resistance Test Assembled Shaft Endplay Assembled Shaft Runout Test Run Voltage Volts Test Run Amperage	Volts Amps		
92. 93. 94. 95. 96. 97.	Photograph All Major Components profinal Insulation Resistance Test Assembled Shaft Endplay Assembled Shaft Runout Test Run Voltage Volts Test Run Amperage Amps	Volts Amps		
92. 93. 94. 95. 96. 97.	Photograph All Major Components profinal Insulation Resistance Test Assembled Shaft Endplay Assembled Shaft Runout Test Run Voltage Volts Test Run Amperage Amps Drive End Vibration Readings - Inche Horizontal	Volts Amps s Per Second Vertical	Amps	
92. 93. 94. 95. 96. 97.	Photograph All Major Components profinal Insulation Resistance Test Assembled Shaft Endplay Assembled Shaft Runout Test Run Voltage Volts Test Run Amperage Amps Drive End Vibration Readings - Inche Horizontal Opposite Drive End Vibration Reading	Volts Amps s Per Second Vertical gs - Inches Per Second	Amps Axial	
92. 93. 94. 95. 96. 97.	Photograph All Major Components profinal Insulation Resistance Test Assembled Shaft Endplay Assembled Shaft Runout Test Run Voltage Volts Test Run Amperage Amps Drive End Vibration Readings - Inche Horizontal	Volts Amps s Per Second Vertical	Amps	
92. 93. 94. 95. 96. 97.	Photograph All Major Components profinal Insulation Resistance Test Assembled Shaft Endplay Assembled Shaft Runout Test Run Voltage Volts Test Run Amperage Amps Drive End Vibration Readings - Inchet Horizontal Opposite Drive End Vibration Reading Horizontal	Volts Amps s Per Second Vertical gs - Inches Per Second	Amps Axial	
92. 93. 94. 95. 96. 97. 98.	Photograph All Major Components profinal Insulation Resistance Test Assembled Shaft Endplay Assembled Shaft Runout Test Run Voltage Volts Test Run Amperage Amps Drive End Vibration Readings - Inchet Horizontal Opposite Drive End Vibration Reading Horizontal Ambient Temperature - Fahrenheit	Volts Amps s Per Second Vertical gs - Inches Per Second Vertical	Amps Axial	
92. 93. 94. 95. 96. 97. 98.	Photograph All Major Components profinal Insulation Resistance Test Assembled Shaft Endplay Assembled Shaft Runout Test Run Voltage Volts Test Run Amperage Amps Drive End Vibration Readings - Inche Horizontal Opposite Drive End Vibration Reading Horizontal Ambient Temperature - Fahrenheit Drive End Bearing Temps - Fahrenheit	Volts Amps s Per Second Vertical gs - Inches Per Second Vertical	Amps Axial Axial	
92. 93. 94. 95. 96. 97. 98.	Photograph All Major Components profinal Insulation Resistance Test Assembled Shaft Endplay Assembled Shaft Runout Test Run Voltage Volts Test Run Amperage Amps Drive End Vibration Readings - Inchet Horizontal Opposite Drive End Vibration Reading Horizontal Ambient Temperature - Fahrenheit	Volts Amps s Per Second Vertical gs - Inches Per Second Vertical	Amps Axial	
92. 93. 94. 95. 96. 97. 98. 100.	Photograph All Major Components profinal Insulation Resistance Test Assembled Shaft Endplay Assembled Shaft Runout Test Run Voltage Volts Test Run Amperage Amps Drive End Vibration Readings - Inche Horizontal Opposite Drive End Vibration Reading Horizontal Ambient Temperature - Fahrenheit Drive End Bearing Temps - Fahrenheit	Volts Amps s Per Second Vertical gs - Inches Per Second Vertical eit 10 Minutes	Amps Axial Axial	
92. 93. 94. 95. 96. 97. 98. 100.	Photograph All Major Components profinal Insulation Resistance Test Assembled Shaft Endplay Assembled Shaft Runout Test Run Voltage Volts Test Run Amperage Amps Drive End Vibration Readings - Inchet Horizontal Opposite Drive End Vibration Reading Horizontal Ambient Temperature - Fahrenheit Drive End Bearing Temps - Fahrenheit 5 Minutes	Volts Amps s Per Second Vertical gs - Inches Per Second Vertical eit 10 Minutes	Amps Axial Axial	

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104. Document Final Condition with Pictures after paint	
105. Final Pics and QC Review	



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- 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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- 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

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- 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.