

LR Motor Shop Repairs

Job Number 104407

Prepared for Ryerson (10858)

7701 Lindsey rd Little rock ar 72206

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AC Inspection as Found - MOTOR SHOP LR

AC Inspection - Rev. 2: 295C

1.0





AC Inspection as Found Ryerson (10858)

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AC Inspection - Rev. 2

Location: MOTOR SHOP LR

Serial Number: 295C

Description:30 HP BALDOR

Hi-Speed Job Number:	104407
Manufacturer:	Baldor
Serial Number:	295C
HP/kW:	30 (HP)
RPM:	675 (RPM)
Frame:	324T
Voltage:	230 / 460
Current:	75/37.5 (Amps)
Phase:	Three
Hz:	60 (Hz)
Service Factor:	1.00
Enclosure:	TEFC
# of Leads:	9
J-box Included:	Complete
Coupling/Sheave:	Coupling
Date Received:	04/03/2025
Bearing RTDs:	No
Stator RTDs:	No
Repair Stage:	Final
Rewind:	No
Shaft Machined Fit Repairs Required:	No
Bearing Housing Machined Fit Repairs Required:	No
Heaters:	No
Winding Type :	Random Wound
Bearing Type:	Rolling Element

Priorities Found: 1 - High

18 - Good

Overall Condition

1. Report Date

2. Nameplate Picture















































4. Describe the Overall Condition of the Equipment as Received *Dirty*

5. Distance from the end of the shaft to the Coupling/Sheave

Flush
Brake coupling-

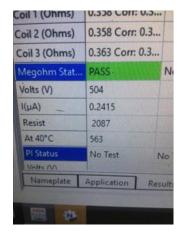
inches





In	Initial Mechanical/Electrical			
	6.	Does Shaft Turn Freely?	(Y) Yes	
	7.	Does the shaft require T.I.R in Lathe to identify additional repairs?	(No) No	
	8.	Does Shaft Have Visible Damage?	(No) No	
	9.	Assembled Shaft Runout	0.001 Inches	

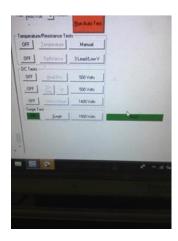
10.	Assembled Shaft End Play	inches
11.	Air Gap Variation <10%	
1 2.	Lead Condition	(P) Pass
13.	Lead Length	16 Inches
1 4.	Does it have Lugs?, If so what is the Stud Size?	(No) No
15.	Lead Numbers	1-9
1 6.	Frame Condition	
17.	Fan Condition	(P) Pass
1 8.	Does motor have internal fan?	(No) No
) 19.	Broken or Missing Components	
-	Brake assembly is missing	
Initial E	Electrical Inspection	
20.	Insulation Resistance/Megger	Megohms



21. Winding Resistance
1-2
1-3
2-3



22. Perform Surge Test (P) Pass



23.	Number of Stator Slots	48
2 4.	Stator Condition	
25.	Stator Thermistors/Ohms	
26.	Stator Overloads/Ohms	
Mech	anical Inspection	
27.	Drive End Bearing Brand	
28.	Drive End Bearing Number-	311



29. Drive End Bearing Qty.	1
30. Drive End Bearing Type	(Ball) Ball Bearing
31. Drive End Lubrication Type	(Grease) Grease Lubricated
32. Drive End Bearing Insulation or Grounding Device?	
33. Drive End Wavy Washer/Snap-Ring Other Retention Device?	wavy washer

34. Drive End Bearing Condition

Contamination



- 35. Opposite Drive End Bearing Brand
- 36. Opposite Drive End Bearing Number-

6312



37.	Opposite Drive End Bearing Qty.	1
38.	Opposite Drive End Bearing Type	(Ball) Ball Bearing
39. Opposite Drive End Lubrication Type (Grease) Grease Lubricated		(Grease) Grease Lubricated
40.	40. Opposite Drive End Bearing Insulation or Grounding Device?	
41.	41. Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?	
-	Spanner nut	
42.	Opposite Drive End Bearing Condition	
•	Contamination	



43	Drive End Seal	
44	Opposite Drive End Seal	
Roto	r Inspection	
45	Rotor Type/Material	(Squirrel Aluminum) Squirrel Cage Aluminum Die Cast
46	Growler Test	(Pass) Pass
47	Number of Rotor Bars	40
• 48	Rotor Condition	
49	List the Parts needed for the Repair Below	
	6311	

Cw

Mun

50. Signature of Technician that Disassembled Motor

Brake assembly

N	Mechanical Fits- Rotor				
	51.	Shaft Runout		inches	
	52.	Rotor Runout			
		Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing	
	53.	Coupling Fit Closest to Bearing Housi	ng		
		0 Degrees	90 Degrees	120 Degrees	
	54.	Coupling Fit Closest to the end of the	Shaft		
		0 Degrees	60 Degrees	120 Degrees	
	55.	Drive End Bearing Shaft Fit			
		0 Degrees	60 Degrees	120 Degrees	
	-	2.1656-2.1656-2.1656			
	56.	Drive End Bearing Shaft Fit Condition		(P) Pass	

57.	Opposite Drive End Bearing Shaft Fit			
	0 Degrees	60 Degrees	120 Degrees	
-	2.3622-2.3622-2.3622			
58.	Opposite Drive End Bearing Shaft Fit	Condition		(P) Pass
59.	Shaft Air Seal Fits			
	Drive End Air Seal	Opposite Drive End Air Seal		
	anical Fits- Bearing Housings			
60.	Drive End - Endbell Bearing Fit	00.5	400 B	
	0 Degrees	60 Degrees	120 Degrees	
	4.7254-4.7250-4.7252			
6 1.		tion		(P) Pass
-	Opposite Drive End - Endbell Bearing			(.)
-	0 Degrees	60 Degrees	120 Degrees	
			0 _ 0 _ 0 _ 0	
-	5.1182-5.1183-5.1183			
63.	Opposite Drive End - Endbell Bearing	Fit Condition		(P) Pass
6 4.	Bearing Cap Condition			
	Drive End Bearing Cap	Opposite Drive End Bearing Cap		
65.	End Bell Air Seal Fits			
	Drive End Air Seal	Opposite Drive End Air Seal		
66.				
67.	Technician	·		Cw
-	CO SIGN:TRH			
	Cause of Failure			
68.	Failure locations			
60	Bearings and brake Root cause of failure			
09.	Contamination			
Dyna	mic Balance Report			
-	Rotor Weight and Balance Grade			
70.	Rotor Weight	Balance Grade		
74	1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
/1.	Initial Balance Readings	Occasio Director		
	Drive End	Opposite Drive End		
72.	Final Balance Readings			
	Drive End	Opposite Drive End		
73	Technician			

Assembly			
74.	QC Check All Parts for Cleanliness Prior to Assembly		
75.	Photograph All Major Components prior to assembly		
76.	Final Insulation Resistance Test		
77.	Assembled Shaft Endplay		
78.	Assembled Shaft Runout		
79.	Test Run Voltage		
	Volts	Volts	Volts
80.	Test Run Amperage		
	Amps	Amps	Amps
81	Drive End Vibration Readings - Inches	: Per Second	
01.	Horizontal	Vertical	Axial
	Honzontal	Vertical	Axiai
82.	Opposite Drive End Vibration Reading	s - Inches Per Second	
	Horizontal	Vertical	Axial
	Ambient Temperature - Fahrenheit		
84.	Drive End Bearing Temps - Fahrenhe	t	
	5 Minutes	10 Minutes	15 Minutes
05	05 Opposite Drive End Booking Tomps - Februaries		
85. Opposite Drive End Bearing Temps - Fahrenheit		45 Minutes	
	5 Minutes	10 Minutes	15 Minutes
86.	Document Final Condition with Picture	es after paint	
87.	Final Pics and QC Review		

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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.
- **DELIVERY SITE AND TIME FOR PERFORMANCE.** Hi-Speed and Buver 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. <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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- 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. <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.