

# LR Motor Shop Repairs

## **Job Number 101734**

Prepared for Kroger

20820 interstate 30 N Benton AR 72019

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AC Inspection as Found - Motor Shop

AC Inspection - Rev. 2: 32-12-200A

1.0



FolderID: 101734

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### **AC Inspection as Found**

Kroger

20820 interstate 30 N Benton, AR 72019

AC Inspection - Rev. 2

Location: Motor Shop Serial Number: 32-12-200A

Description: 6 HP 855 RPM

Hi-Speed Job Number:	101734
Serial Number:	32-12-200A
HP/kW:	6 (HP)
RPM:	855 (RPM)
Frame:	32
Voltage:	Other
Current:	18
Phase:	Three
Hz:	60 (Hz)
# of Leads:	3
J-box Included:	None
Coupling/Sheave:	None
Date Received:	08/14/2023
Repair Stage:	Final

Priorities Found: 6 - High



2 - Good

#### **Overall Condition**

1. Report Date

Nameplate Picture



Photos of all six sides of the machine.

























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

#### **Initial Mechanical/Electrical**

5.	Does Shaft Turn Freely?	(No) No
6.	Does Shaft Have Visible Damage?	(No) No
7.	Assembled Shaft Runout	

- Assembled Shaft End Play
- 9. Air Gap Variation <10%





11.	Lead Length		14 Inches
12.	Lead Numbers		1-3
13.	Stator Temperature Detector Rating	and Function	
	Quantity	Rating	Quantity Passed
14.	Bearing Temperature Detector Ratin	g and Function	
	Quantity	Rating	Quantity Passed
4.5			
	Frame Condition		pass
	Fan Condition		(N) NA
17.	Heater Quantity, Ratings	\	D / E. 'I
	Quantity	Volts/Watts	Pass/Fail
18.	Broken or Missing Components		j-box
	Electrical Inspection		<b>,</b>
	Insulation Resistance/Megger		
	Winding Resistance		
	1-2	1-3	2-3
	· <del>-</del>	. •	
21.	Perform Surge Test		(NA) Not Applicable
-	Windings overloaded		
22.	Number of Stator Slots		Megohms
23.	Stator Condition		
24.	Stator Thermistors/Ohms		
25.	Stator Overloads/Ohms		
Mecha	anical Inspection		
26.	Drive End Bearing Brand		
27.	Drive End Bearing Number-		6208
28.	Drive End Bearing Qty.		1
29.	Drive End Bearing Type		(Ball) Ball Bearing
30.	Drive End Lubrication Type		(Grease) Grease Lubricated
31.	<b>3</b>	*	
32.	3	Other Retention Device?	na
33.	Drive End Bearing Condition		excessive wear

2.4	Opposite Drive End Dearing Brand		
	Opposite Drive End Bearing Brand		6206
35.	- 11 - 1 - 1 - 1 - 1		
36.	3,		1
37.	11 0 71		(Ball) Ball Bearing
38.	Opposite Drive End Lubrication Type		(Grease) Grease Lubricated
39.	Opposite Drive End Bearing Insulation	-	
40.		-	wavy washer
41.	- 11 - 1 - 1 - 1 - 1 - 1	1	bearing cage failed
42.	Drive End Seal		
43.			
44.	DE Sleeve Bearing Inside Diameter		
	0 degrees	120 degrees	240 degrees
45	DE Sleeve Bearing Outside Diameter		
43.	-		240 daggara
	0 degrees	120 degrees	240 degrees
46.	DE Sleeve Bearing Housing Inside Di	ameter	
	0 degrees	120 degrees	240 degrees
47.	DE Sleeve Bearing to Housing Cleara	nce	
	0 degrees	120 degrees	240 degrees
48.	ODE Sleeve Bearing Inside Diameter		
	0 degrees	120 degrees	240 degrees
			<u> </u>
49.	ODE Sleeve Bearing Outside Diameter		
	0 degrees	120 degrees	240 degrees
50.	ODE Sleeve Bearing Housing Inside	Diameter	
	0 degrees	120 degrees	240 degrees
			1 1 2 9 1 1 1
51.	ODE Sleeve Bearing to Housing Clea	rance	
	0 degrees	120 degrees	240 degrees
<b>D</b>			
	Inspection		
52.	Rotor Type/Material		(Squirrel Aluminum) Squirrel Cage Aluminum Die Cast
53.	Growler Test		(Pass) Pass
54.	Number of Rotor Bars		
55.	Rotor Condition		pass
56.	List the Parts needed for the Repair E 6208 6206	selow	
57.	Signature of Technician that Disasser		Cw
6	100000		

### **Mechanical Fits- Rotor**

	58	Shaft Runout			
		Rotor Runout			
	55.	Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing	
		Drive End Bearing Fit	Notor Body	Opposite Drive Life Bearing	
	60.	Coupling Fit Closest to Bearing Housi	ng		
		0 Degrees	90 Degrees	120 Degrees	
	61.	Coupling Fit Closest to the end of the			
		0 Degrees	60 Degrees	120 Degrees	
	62	Drive End Boaring Shoft Eit			
	02.	Drive End Bearing Shaft Fit	60 Dogroop	120 Dogroop	
		0 Degrees 1.5749	60 Degrees 1.575	120 Degrees 1.5749	
	63	Drive End Bearing Shaft Fit Condition		(P) Pass	
		Opposite Drive End Bearing Shaft Fit		(1)1 400	
	•	0 Degrees	60 Degrees	120 Degrees	
		1.1812	1.1811	1.1812	
	65.	Opposite Drive End Bearing Shaft Fit	Condition	(P) Pass	
		Shaft Air Seal Fits		, ,	
		Drive End Air Seal	Opposite Drive End Air Seal		
		Sino Lina / III Coali			
M	echa	anical Fits- Bearing Housings			
	67.	Drive End - Endbell Bearing Fit			
		0 Degrees	60 Degrees	120 Degrees	
		3.1506	3.1503	3.1504	
		Drive End - Endbell Bearing Fit Condi		(F) Fail	
	69.	Opposite Drive End - Endbell Bearing			
		0 Degrees	60 Degrees	120 Degrees	
		2.4419	2.442	2.44205	
	70.	3	Fit Condition	(F) Fail	
	71.	Bearing Cap Condition	Operation Drive Food Bearing Con		
		Drive End Bearing Cap	Opposite Drive End Bearing Cap		
	72.	End Bell Air Seal Fits			
		Drive End Air Seal	Opposite Drive End Air Seal		
		2.776 2.747 111 0001			
	73.	List Machine Work Needed Below			
		Both end bell bearing fits			
	74	Technician		Cw	
				<b></b>	
	,				
	C				
D	vnar	nic Balance Report			
U	-	Rotor Weight and Balance Grade			
	7 .	Rotor Weight	Balance Grade		
		TOO WOIGHT	Dalatioo Orage		

76.	Initial Balance Readings		
	Drive End	Opposite Drive End	
77.	Final Balance Readings		
	Drive End	Opposite Drive End	
	Technician		
Rewir	nd		
79.	Core Test Results - Watts loss per Po	pund	
	Pre-Burnout	Post Burnout	
00	0 11 10 17		
80.	Core Hot Spot Test	5 . 5	
	Pre-Burnout	Post-Burnout	
Ω1	Post Rewind Electrical Test- Insulation	n Pecietance	
	Post Rewind Polarization Index	Tresistance	
	Post Rewind Winding Resistance		
00.	1-2	1-3	2-3
	1-2	1-0	2-0
84.	Post Rewind Surge Test		
	Post Rewind Hi-Pot		
86.	Technician		
Root	Cause of Failure		
87.	Failure locations		
	Windings and bearings		
88.	Root cause of failure		
	Excessive wear and over load		
Mech	anical Fits- Rotor - Post Repair		
	Shaft Runout Post Repair		
90.	Rotor Runout Post Repair		
	Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing
		·	
91.	Coupling Fit Closest to Bearing Hous	ing Post Repair	
	0 Degrees	90 Degrees	120 Degrees
92.	Coupling Fit Closest to the end of the	·	
	0 Degrees	60 Degrees	120 Degrees
03	Drive End Bearing Shaft Fit Post Rep	air	
93.			120 Dograda
	0 Degrees	60 Degrees	120 Degrees
94.	Opposite Drive End Bearing Shaft Fit	Post Repair	
	0 Degrees	60 Degrees	120 Degrees
	0 D0g.000	00 D0g.000	120 Dog1000
95.	Shaft Air Seal Fits Post Repair		
	Drive End Air Seal	Opposite Drive End Air Seal	
	Shaft Repair Sign-off		
Mech	Mechanical Fits- Bearing Housings - Post Repair		

07					
97.	Drive End - Endbell Bearing Fit Post F				
	0 Degrees	60 Degrees	120 Degrees		
00	98. Opposite Drive End - Endbell Bearing Fit Post Repair				
98.		·			
	0 Degrees	60 Degrees	120 Degrees		
00	99. Bearing Cap Condition Post Repair				
99.	* '	Opposite Drive Ford Decrine Con			
	Drive End Bearing Cap	Opposite Drive End Bearing Cap			
100	End Bell Air Seal Fits Post Repair				
100.	Drive End Air Seal	Opposite Drive End Air Seal			
	Dive Life All Geal	Opposite Drive Life All Ocal			
101.	DE Sleeve Bearing Inside ID Post Rep	pair			
	Measure 1	Measure 2	Measure 3		
102.	DE Sleeve Bearing Outside ID Post R	epair			
	Measure 1	Measure 2	Measure 3		
103.	DE Sleeve Bearing Inside OD Post Re	epair			
	Measure 1	Measure 2	Measure 3		
104.	DE Sleeve Bearing Outside OD Post I	•			
	Measure 1	Measure 2	Measure 3		
	End Bell Repair Sign-off				
106.	ODE Sleeve Bearing Inside ID Post R	•			
	Measure 1	Measure 2	Measure 3		
107	ODE Sleeve Bearing Outside ID Post	Popair			
107.	Measure 1	Measure 2	Measure 3		
	ivieasure i	ivieasure 2	ivieasure 3		
108.	ODE Sleeve Bearing Inside OD Post I	Repair			
		Measure 2	Measure 3		
	Wododio i	Modelio Z	Modelare e		
109.	ODE Sleeve Bearing Outside OD Pos	t Repair			
	Measure 1	Measure 2	Measure 3		
Assen	nbly				
110.	QC Check All Parts for Cleanliness Pr	ior to Assembly			
111.	Photograph All Major Components pri	or to assembly			
112.	Final Insulation Resistance Test				
113.	Assembled Shaft Endplay				
	Assembled Shaft Runout				
115.	Test Run Voltage				
	Volts	Volts	Volts		
116.	116. Test Run Amperage				
	Amps	Amps	Amps		

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117. Drive End Vibration Readings - Inches Per Second			
Horizontal	Vertical	Axial	
118. Opposite Drive End Vibration	Readings - Inches Per Second		
Horizontal	Vertical	Axial	
110 Ambient Temperature Febr	anh ait		
<ul><li>119. Ambient Temperature - Fahre</li><li>120. Drive End Bearing Temps - F</li></ul>			
5 Minutes	10 Minutes	15 Minutes	
5 Millutes	TO Millutes	15 Milliules	
121. Drive End Bearing Temps - F	ahrenheit 20-30 Minutes		
20 Minutes	25 Minutes	30 Minutes	
122. Drive End Bearing Temps - F			
35 Minutes	40 Minutes	45 Minutes	
123. Drive End Bearing Temps - F	ahrenheit 50-60 Minutes		
50 Minutes	55 Minutes	60 Minutes	
30 Williates	33 Williates	00 Williates	
124. Opposite Drive End Bearing	Temps - Fahrenheit		
5 Minutes	10 Minutes	15 Minutes	
125. Opposite Drive End Bearing		22.14	
20 Minutes	25 Minutes	30 Minutes	
126. Opposite Drive End Bearing	Temps - Fahrenheit 35-45 Minutes		
35 Minutes	40 Minutes	45 Minutes	
127. Opposite Drive End Bearing	Temps - Fahrenheit 50-60 Minutes		
50 Minutes	55 Minutes	60 Minutes	
128. Stator Temperatures- Fahren	shoit		
5 Minutes	10 Minutes	15 Minutes	
o ivilidos	10 Williates	10 Miliatos	
129. Stator Temperatures- Fahren	heit 20-30 Minutes		
20 Minutes	25 Minutes	30 Minutes	
130. Stator Temperatures- Fahren		4-14	
35 Minutes	40 Minutes	45 Minutes	
131. Stator Temperatures- Fahren	heit 50-60 Minutes		
50 Minutes	55 Minutes	60 Minutes	
233.30	333.33	33	
132. Document Final Condition with	th Pictures after paint		
133. Final Pics and QC Review			

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- 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.
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- 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.