

EVERY DAY SINCE 1946

LR Motor Shop Repairs

Job Number 104415

Prepared for Tyson Foods (10914)

1238 Market Street Clarksville AR 72830

Table of Contents

AC Inspection as Found - LR MOTOR SHOP

AC Random Coil Rewind Report - LR MOTOR SHOP



Tyson Foods (10914) 1238 Market Street Clarksville, AR 72830

AC Inspection - Rev. 2

Location:	LR MOTOR SHOP
Serial Number:	12H013Y276

Description:40 HP BALDOR

FolderID: 104415 FormID: 24037883

Hi-Speed Job Number:	104415
Manufacturer:	Baldor
Product Number:	CAT#EM4110T
Serial Number:	12H013Y276
HP/kW:	40 (HP)
RPM:	1775 (RPM)
Frame:	324T
Voltage:	230 / 460
Current:	96 / 48 (Amps)
Phase:	Three
Hz:	60 (Hz)
Service Factor:	1.0
Enclosure:	TEFC
# of Leads:	9
J-box Included:	Complete
Coupling/Sheave:	None
Bearing RTDs:	No
Stator RTDs:	No
Repair Stage:	Final
Rewind:	Yes
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

🔵 15 - Good

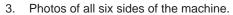
Overall Condition

1. Report Date

04/18/2025

2. Nameplate Picture



















	4.	Describe the Overall Condition of the Equipment as Received			
		Serviceable			
	5.	Is this a UL Listed Motor	(No) No		
	6.	Is the motor water cooled or can be pressure checked before teardown	(No) No		
In	Initial Mechanical/Electrical				
	7.	Does Shaft Turn Freely?	(Y) Yes		
	8.	Does the shaft require T.I.R in Lathe to identify additional repairs?	(No) No		
	9.	Does Shaft Have Visible Damage?	(No) No		
	10.	Assembled Shaft Runout	0.002 Inches		

11. Assembled Shaft End Play 0 inches 12. Air Gap Variation <10%</td> (P) Pass 13. Lead Condition (P) Pass

14.	Lead Length	11 Inches	
15.	Does it have Lugs?, If so what is the Stud Size?	(No) No	
16.	Lead Numbers	1-9	
17.	Frame Condition	pass	
18.	Fan Condition	(P) Pass	
201.			



20. Broken or Missing Components
21. Are the Leads insulated with Chico or other material

Initial Electrical Inspection

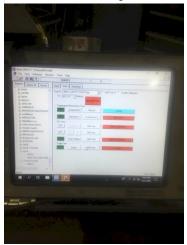
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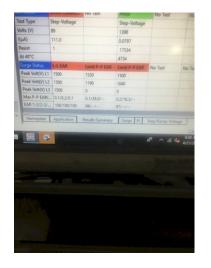
(No) No

(No) No

22. Insulation Resistance/Megger			Megohms
Test Dute 4/21/2025 4/11/2025 <t< th=""><th></th><th></th><th></th></t<>			
Coil 2 (Ohms) 0.081 Core: 0 0.0398 Core: 0 0.0398 Core: 0 Coil 3 (Ohms) 0.080 Core: 0 0.0367 Core: 0 0.0367 Core: 0			
Megohm Stat OVER CURRE No Test PASS No Test No Test			
I(uA) 609.8 0.0695			
Resist 0 7207 At 40°C 1945			
Pi Status No Test No Test No Test No Test			
Voits (V)			
PI Ratio DC Status OVER CONDIL No Test PA3S No Test No Test No Test			
Teet Tune Gran Unitarue Gran Unitarue Gran Unitarue Surger (P) Step: Ramp-Voltage			
CAP NUM			
A ^R ∧ <u>#</u> 4 <u>8</u> 47,405 □			
and the second se			
Static MOTOR AWART			
The second se			
23. Winding Resistance			
	4.0		
1-2	1-3	2-3	
-			
v Tools Help 184415 5			
Data Tests Trending			
Time Test ID Te., Res., Mo., PI DC Sur.,			
4/21/2025 8:43			
4/11/2023 8/11: 480V w/s T PASS PASS PASS FAIL Test Date 4/21/2025 4/11/2025 4/11/2025 4/11/2025 4/11/2025			
Test Time 8:43:33 AM 3:16:01 PM 3:11:35 PM 3:03:09 PM 3:01:00 PM			
Pasist Status DELTA R No Test PASS DELTA R No Test Bail L1 (Ohms)			
Bal L2 (Ohms)			
Bal L3 (Ohms) L1:L2 (Ohms) 0.0798 Corr. 0 0.0798 Corr. 0			
L2-L3 (Ohms) 0.160 Corr. 0.1 0.0765 Corr. 0 0.0765 Corr. 0 L3-L3 (Ohms) 0.154 Corr. 0.1 0.0767 Corr. 0 0.0768 Corr. 0			
Max Delta R % 4.423 4.251 4.307 Cell 1 (Ohms) 0.074 Corr 0.0 0.0400 Cerr 0 0.0401 Cerr 0			
Coll 2 (Ohms) 0.081 Com 0.0 0.0398 Com 0 0.0398 Com 0			
Colil J (Ohms) 0.000 Cort B.D. 0.0367 Cert 0 0.0367 Cert 0 Magehm Statut OWR Classes No Test Mo Test			
Volar (M) In 915 Nameplate Application, Results Summary Surge (P) Step/Ramp-Voltage			
Balance and Ane			

24. Perform Surge Test





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(F) Fail

10001	 Tools Help 104415 	6		
Meter D Route	Data Tests Trending			
LANNE	Time Test ID	Te., Rev., Mo.,	PI DC Sur.	
i lenicun	4/11/2025 3.16 480V w/c 4/11/2025 3.11 480V w/c	T., BASS BASS	FALL PASS FALL	
LERCON	Surpe Wave		7433 Tal	
AMAGRICELA WASTEWATE	ourge wave	-Leui 2	Linge Dat Gran	
MIDDLETON Middleton av		(Aut)	Pad Martin Vidage Lab	
c) mike stacks farms (c) modern build	1 Amo		Last 7 1920 ETE	
	道理		Lead 2 1500 0.2%	
III REYNOLDS (II) Richard Freds			LEEAN	
ID RYERSON ID SAGE	140000	10 to 100 the	1.2 [1000 2.3 [1000	
IK SAGE V FOODS	-		21 1980	
	Nerreghts Application for			-
			Car No.	1
- Alterative				
All services				
alline pro				
Contract of the				

25.Number of Stator Slots4826.Stator Conditionrewind27.Stator Thermistors/Ohms2828.Stator Overloads/Ohms29Drive End Bearing BrandSKF30.Drive End Bearing Number-6312/C3





31.	Drive End Bearing Qty.	1
32.	Drive End Bearing Type	(Ball) Ball Bearing
33.	Drive End Lubrication Type	(Grease) Grease Lubricated
34.	Drive End Bearing Insulation or Grounding Device?	none
35.	Drive End Wavy Washer/Snap-Ring Other Retention Device?	none
36.	Drive End Bearing Condition	evidence of frosting

37. Opposite Drive End Bearing Brand



38. Opposite Drive End Bearing Number-



- 39. Opposite Drive End Bearing Qty.
- 40. Opposite Drive End Bearing Type
- 41. Opposite Drive End Lubrication Type
- 42. Opposite Drive End Bearing Insulation or Grounding Device?
- 43. Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?

wavy washer

(Ball) Ball Bearing

(Grease) Grease Lubricated

1



44. Opposite Drive End Bearing Condition

evidence of frosting on inner and outer races

VA-055

45. Drive End Seal

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6311 C3



46. Opposite Drive End Seal **Rotor Inspection**

47. Rotor Type/Material



48.	Growler Test		(Pass) Pass
49.	Number of Rotor Bars		41
50.	Rotor Condition		pass
51.	List the Parts needed for the Repair B	elow	
	1) 6312/C3 1) 6311/C3 Rewind stator		
52.	Signature of Technician that Disassen	nbled Motor	Terrence Holland
_	J/1	L	
Mecha	anical Fits- Rotor		
53.	Shaft Runout		0.002 inches
54.	Rotor Runout		
	Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing

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(Squirrel Aluminum) Squirrel Cage Aluminum Die Cast

	55.	Coupling Fit Closest to Bearing Housi	ng		
		0 Degrees	90 Degrees	120 Degrees	
	56.	Coupling Fit Closest to the end of the	Shaft		
		0 Degrees	60 Degrees	120 Degrees	
	57.	Drive End Bearing Shaft Fit			
		0 Degrees	60 Degrees	120 Degrees	
		2.3625	2.3626	2.2625	
		Drive End Bearing Shaft Fit Condition			(P) Pass
	59.	Opposite Drive End Bearing Shaft Fit			
		0 Degrees	60 Degrees	120 Degrees	
		2.1659	2.1659	2.1659	
		Opposite Drive End Bearing Shaft Fit	Condition		(P) Pass
	61.	Shaft Air Seal Fits			
		Drive End Air Seal	Opposite Drive End Air Seal		
Ν		anical Fits- Bearing Housings			
	62.	Drive End - Endbell Bearing Fit			
		0 Degrees	60 Degrees	120 Degrees	
		5.1184	5.1182	5.1182	
		Drive End - Endbell Bearing Fit Condi			(P) Pass
	64.	Opposite Drive End - Endbell Bearing			
		0 Degrees	60 Degrees	120 Degrees	
		4.725	4.7251	4.72	
	65.		Fit Condition		(P) Pass
	66.	Bearing Cap Condition			
		Drive End Bearing Cap	Opposite Drive End Bearing Cap		
		pass	pass		
	67.	End Bell Air Seal Fits			
		Drive End Air Seal	Opposite Drive End Air Seal		
	68.	List Machine Work Needed Below			
			orill and tap connection box cover bolt holes		
	69.	Technician	. /	Terrence	Holland
		7 7/			
	/		Mel		
	/_	mar /			
		Co sign: CRW	·		
F	loot	Cause of Failure			
	70.	Failure locations			
		Windings shorted. Both bearings have	frosting.		
	71.	Root cause of failure			
		Windings shorted between phases.			
	Whar	nic Balance Report			

	Rotor Weight	Balance Grade		
73	Initial Balance Readings			
70.	Drive End	Opposite Drive End		
	0.54	0.52		
74	Final Balance Readings			
74.	Drive End	Opposite Drive End		
	0.54	0.53		
75.	Technician			RW
	hh/			
ewii	hd hd			
	nd Core Test Results - Watts loss per Pe	ound		
		ound Post Burnout		
76.	Core Test Results - Watts loss per Pe			
76.	Core Test Results - Watts loss per Pe Pre-Burnout			
76. 77.	Core Test Results - Watts loss per Pe Pre-Burnout Core Hot Spot Test	Post Burnout Post-Burnout		Megohms
76. 77. 78.	Core Test Results - Watts loss per Per Pre-Burnout Core Hot Spot Test Pre-Burnout	Post Burnout Post-Burnout		Megohms Polarization Index
76. 77. 78.	Core Test Results - Watts loss per Po Pre-Burnout Core Hot Spot Test Pre-Burnout Post Rewind Electrical Test- Insulation Post Rewind Polarization Index	Post Burnout Post-Burnout		-
76. 77. 78. 79.	Core Test Results - Watts loss per Po Pre-Burnout Core Hot Spot Test Pre-Burnout Post Rewind Electrical Test- Insulation Post Rewind Polarization Index	Post Burnout Post-Burnout	2-3	-
76.77.78.79.80.	Core Test Results - Watts loss per Po Pre-Burnout Core Hot Spot Test Pre-Burnout Post Rewind Electrical Test- Insulation Post Rewind Polarization Index Post Rewind Winding Resistance 1-2	Post Burnout Post-Burnout on Resistance	2-3	-
76. 77. 78. 79. 80. 81.	Core Test Results - Watts loss per Per Pre-Burnout Core Hot Spot Test Pre-Burnout Post Rewind Electrical Test- Insulation Post Rewind Polarization Index Post Rewind Winding Resistance 1-2 Post Rewind Surge Test	Post Burnout Post-Burnout on Resistance	2-3	Polarization Index
 76. 77. 78. 79. 80. 81. 82. 	Core Test Results - Watts loss per Po Pre-Burnout Core Hot Spot Test Pre-Burnout Post Rewind Electrical Test- Insulation Post Rewind Polarization Index Post Rewind Winding Resistance 1-2	Post Burnout Post-Burnout on Resistance	2-3	-

85. Photograph All Major Components prior to assembly









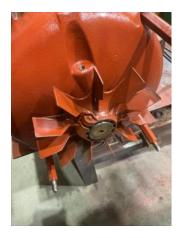




(Complete) Complete







86. Final Insulation Resistance Test



87.	Assembled Shaft Endplay		0 inches
88.	Assembled Shaft Runout		0.0003 inches
89.	Test Run Voltage		
	Volts	Volts	Volts
	454	453	455

17,800 Megohms



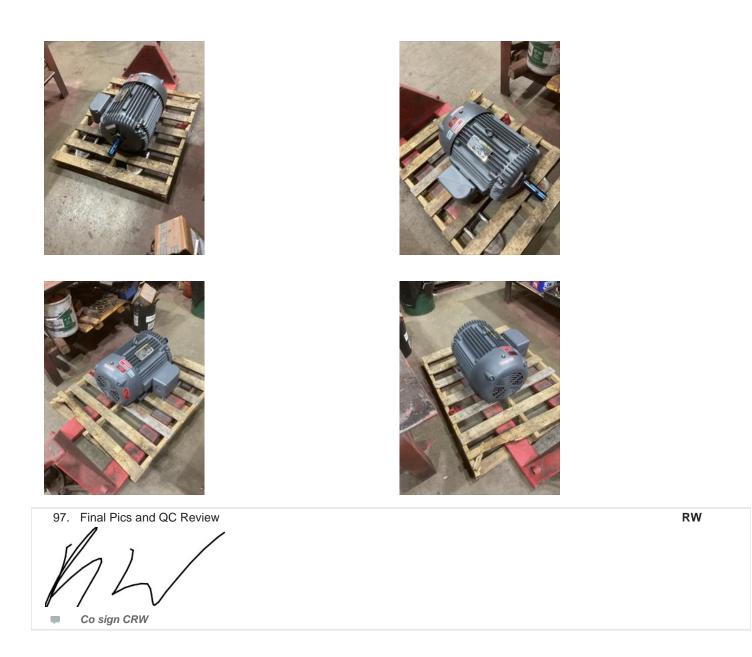
Co sign CRW

90. Test Run Amperage			
Amps	Amps	Amps	
20.2	20.3	19.6	



91.	1. Drive End Vibration Readings - Inches Per Second			
	Horizontal	Vertical	Axial	
	0.04	0.04	0.03	
92.	Opposite Drive End Vibration Readings - Inches Per Second			
	Horizontal	Vertical	Axial	
	0.04	0.04	0.04	
93.	Ambient Temperature - Fahrenheit			
94.	Drive End Bearing Temps - Fahrenheit			
	5 Minutes	10 Minutes	15 Minutes	
95.	Opposite Drive End Bearing Temps -	Fahrenheit		
	5 Minutes	10 Minutes	15 Minutes	
96	Document Final Condition with Picture	a after paint		

96. Document Final Condition with Pictures after paint





FolderID: 104415 FormID: 24282213

AC Random Coil Rewind Report

Tyson Foods (10914) 1238 Market Street

Clarksville, AR 72830

LR MOTOR SHOP

Priorities Found: **5 - Good**

Gene	al	
1.	Job Number	104415
2.	Report Date	04/30/2025
3.	Customer	Tyson Food
Stato	Winding	
4.	Core Length	6.75 "
5.	Core ID	8.5 "
6.	Back Iron Depth	1.125 "
7.	Slot Depth	1.3125 "
8.	Tooth Width	0.25 "
9.	Number of Vents	
10.	Vent Width	
11.	Before Burnout Core loss	(P) Pass
12.	Flux Before Burnout	
13.	Watts before burnout	
14.	Watts loss per lb. before burnout	1.49 W/lbs.
15.	After Burnout Core Loss	(P) Pass
16.	Flux After burnout	
17.	Watts After Burnout	Watts
18.	Watts loss per lb After Burnout	1.192 W/lbs.
19.	Core Iron Condition	(P) Pass
20.	RTD's	
21.	RTD's Reading	
22.	Motor Heaters	
23.	Heater Qty.	
24.	Heater Voltage	
25.	Heater Wattage	
26.	Thermistors	
27.	Number of Poles	4
28.	Slots	48
29.	Number of Coils	36
	Coil Weight	
31.	Lead Markings	
32.	Grouping	
	12of3 7-9 lap	
• 33.	Multiple Wires	(Y) Yes
	2	

3/	Wire Size	
. .	3#17	
	2#18.	
35.	Turns per coil	
	16-17-32	
36.	Pitch 1 to:	
	8-10-12	
37.	Connection	
	2&4Delta	
38.	Lead Length	"
	12"	
39.	Lead Size	
	5'#8 EXAR	
	Number of Leads	9
		7915 Mohms
	Coil Machine Slot	
	Coil Machine Tip	
	Coil Machine Pitch	
	Hi Pot Reading After Rewind	0.0820300000000001 Ua
	Surge Pattern After Rewind	(P) Pass
1 7.	Service Technician	LE 3.50. OE 3.50
1	\square	
	Jon & m	
	40Lbs total	
	25Lbs #17 15Lbs #18	
	5'#8 EXAR Lead Wire	
2 -		
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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. <u>GOVERNING LAW AND JURISDICTION.</u> 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. <u>ABANDONED EQUIPMENT.</u> 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. <u>ASSIGNMENT.</u> 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. <u>NO INDIVIDUAL LIABILITY</u>. 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.