

# LR Motor Shop Repairs

## **Job Number 99883**

Prepared for MEC (011337)

P.O. Box 1680 Heber Springs AR 72543

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MOTOR SHOP LR

# AC Recondition As Found MEC (011337)

P.O. Box 1680

Location:

Heber Springs, AR 72543

AC Recondition - Rev. 2

Serial Number: Planar Motor

**Description:**Planar Motor

Hi-Speed Job Number:	99883
Manufacturer:	Other
Date Received:	06/06/2022
Bearing RTDs:	No
Stator RTDs:	No
Repair Stage:	Final
Winding Type :	Random Wound
Bearing Type:	Rolling Element

#### Priorities Found:

#### **Overall Condition**

- 1. Report Date
- 2. Nameplate Picture





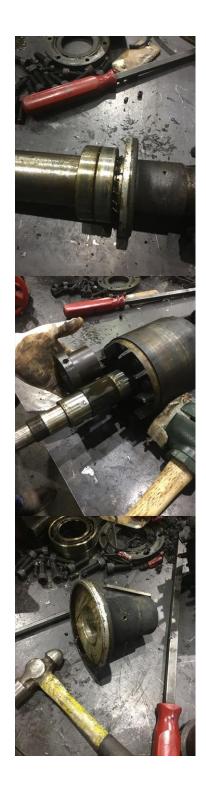
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3.	Describe the Overall Condition of the Equipment as Received
4.	Distance from the end of the shaft to the Coupling/Sheave
5.	Photos of all six sides of the machine.

#### Initial Mechanical/Electrical

- 6. Does Shaft Turn Freely?
- 7. Does Shaft Have Visible Damage?
- 8. Assembled Shaft Runout
- 9. Assembled Shaft End Play inches
- 10. Air Gap Variation <10%
- 11. Lead Condition
- 12. Lead Length
- 13. Frame Condition
- 14. Fan Condition
- 15. Heater Quantity, Ratings

Quantity	Volts/Watts	Pass/Fail	

16. Broken or Missing Components

#### **Initial Electrical Inspection**

- 17. Insulation Resistance/Megger
- 18. Winding Resistance

1-2	1-3	2-3
1 4	1 0	20

- 19. Perform Surge Test
- 20. Stator Condition

#### **Mechanical Inspection**

- 21. Drive End Bearing Number-
- 22. Drive End Bearing Qty.
- 23. Drive End Bearing Type
- 24. Drive End Lubrication Type
- 25. Drive End Bearing Insulation or Grounding Device?
- 26. Drive End Wavy Washer/Snap-Ring Other Retention Device?
- 27. Drive End Bearing Condition
- 28. Opposite Drive End Bearing Number-
- 29. Opposite Drive End Bearing Qty.
- 30. Opposite Drive End Bearing Type

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31.	Opposite Drive End Lubrication Type		
32.			
33.	Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?		
34.	11	1	
35.			
	Opposite Drive End Seal		
	Inspection		
37.	Rotor Type/Material		
38.			
39.			
40.			
	List the Parts needed for the Repair B		
	Signature of Technician that Disasser	nbled Motor	
Mecha	anical Fits- Rotor		
	Shaft Runout		
44.	Rotor Runout		
	Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing
45.	Coupling Fit Closest to Bearing Housi	ng	
	0 Degrees	90 Degrees	120 Degrees
46.	Coupling Fit Closest to the end of the	Shaft	
	0 Degrees	60 Degrees	120 Degrees
47.	Drive End Bearing Shaft Fit		
	0 Degrees	60 Degrees	120 Degrees
40	Drive End Bearing Shaft Fit Condition		
49.			
49.	··· -		120 Dograda
	0 Degrees	60 Degrees	120 Degrees
50.	Opposite Drive End Bearing Shaft Fit	Condition	
51.			
	Drive End Air Seal	Opposite Drive End Air Seal	
	anical Fits- Bearing Housings		
52.	Drive End - Endbell Bearing Fit		
	0 Degrees	60 Degrees	120 Degrees
53.	Drive End - Endbell Bearing Fit Condi	tion	
54.	Opposite Drive End - Endbell Bearing	Fit	
	0 Degrees	60 Degrees	120 Degrees
55.	Opposite Drive End - Endbell Bearing	Fit Condition	
	Bearing Cap Condition	1 it Condition	
50.		Opposite Drive End Bearing Cap	
	Drive End Bearing Cap	Opposite Drive End Bearing Cap	

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	E		
57.	End Bell Air Seal Fits		
	Drive End Air Seal	Opposite Drive End Air Seal	
50	Liet Marking Wards Nord and Dalass		
	List Machine Work Needed Below		
	Technician		
-	nic Balance Report		
60.	Rotor Weight and Balance Grade		
	Rotor Weight	Balance Grade	
61	Initial Balance Readings		
01.	Drive End	Opposite Drive End	
	Drive Eria	Opposite Drive End	
62.	Final Balance Readings		
	Drive End	Opposite Drive End	
63.	Technician		
Rewin	nd		
64.	Core Test Results - Watts loss per Po	und	
	Pre-Burnout	Post Burnout	
65.	Core Hot Spot Test		
	Pre-Burnout	Post-Burnout	
66	Post Rewind Electrical Test- Insulation	n Resistance	
67.		Tresistance	
	Post Rewind Winding Resistance		
00.	1-2	1-3	2-3
	1-2	1-3	2-0
69.	Post Rewind Surge Test		
70.	Post Rewind Hi-Pot		
71.	Technician		
Root (	Cause of Failure		
72.	Failure locations		
73.	Root cause of failure		
Mecha	anical Fits- Rotor - Post Repair		
74.	Shaft Runout Post Repair		
75.	Rotor Runout Post Repair		
	Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing
	- II	B + B +	
76.	Coupling Fit Closest to Bearing Housi	·	
	0 Degrees	90 Degrees	120 Degrees
77.	Coupling Fit Closest to the end of the	Shaft Post Repair	
77.	0 Degrees	60 Degrees	120 Degrees
	Dogicos	oo Dogroos	120 Dogicos
78.	Drive End Bearing Shaft Fit Post Repa	air	
	0 Degrees	60 Degrees	120 Degrees
			Ŭ.

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79.	Opposite Drive End Bearing Shaft Fit Post Repair			
	0 Degrees	60 Degrees	120 Degrees	
80.	Shaft Air Seal Fits Post Repair			
	Drive End Air Seal	Opposite Drive End Air Seal		
81.	Shaft Repair Sign-off			
Mecha	anical Fits- Bearing Housings - P	ost Repair		
82.	Drive End - Endbell Bearing Fit Post F	Repair		
	0 Degrees	60 Degrees	120 Degrees	
83.	Opposite Drive End - Endbell Bearing	Fit Post Repair		
	0 Degrees	60 Degrees	120 Degrees	
84.	Bearing Cap Condition Post Repair			
	Drive End Bearing Cap	Opposite Drive End Bearing Cap		
85.	End Bell Air Seal Fits Post Repair			
	Drive End Air Seal	Opposite Drive End Air Seal		
86.	End Bell Repair Sign-off			
Assen	Assembly			



87. Photograph All Major Components prior to assembly



88.	Final Insulation Resistance Test		
89.	Assembled Shaft Endplay		
90.	Assembled Shaft Runout		
91.	Test Run Voltage		
	Volts	Volts	Volts
92.	Test Run Amperage		
	Amps	Amps	Amps
93.	Drive End Vibration Readings - Inches	Per Second	
	Horizontal	Vertical	Axial

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94. Opposite Drive End Vibration Readings - Inches Per Second			
	Horizontal	Vertical	Axial
95.	95. Ambient Temperature - Fahrenheit		
96.	96. Drive End Bearing Temps - Fahrenheit		
	5 Minutes	10 Minutes	15 Minutes
97.	97. Opposite Drive End Bearing Temps - Fahrenheit		
	5 Minutes	10 Minutes	15 Minutes
98.	Final Test Run Sign-off		
99.	Document Final Condition with Picture	es after paint	









100. Final Pics and QC Review







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### **AC Random Coil Rewind Report**

**MEC (011337)** P.O. Box 1680 Heber Springs, AR 72543

Priorities Found: 1 - Good

General		
1. Job Number	99883	
2. Report Date	06/07/2022	
3. Customer	MEC	





Stato	r Winding	
4.	Core Length	4.125 "
5.	Core ID	5.75 "
6.	Back Iron Depth	0.75 "
7.	Slot Depth	0.687000000000001 "
8.	Tooth Width	262 "
9.	Number of Vents	0
10.	Vent Width	0 "
11.	Before Burnout Core loss	
12.	Flux Before Burnout	
13.	Watts before burnout	
14.	Watts loss per lb. before burnout	
15.	After Burnout Core Loss	
16.	Flux After burnout	
17.	Watts After Burnout	
18.	Watts loss per lb After Burnout	
19.	Core Iron Condition	
20.	RTD's	
21.	RTD's Reading	
22.	Motor Heaters	

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23	. Heater Qty.	
	. Heater Voltage	
	. Heater Wattage	
26		
	. Number of Poles	4
28		36
	. Number of Coils	36
	. Coil Weight	12 Lbs.
	. Lead Markings	
	. Grouping	
02	12 of 3	
<b>33</b>	. Multiple Wires	(Y) Yes
	2 20s	(1)
34	. Wire Size	
	17	
35	. Turns per coil	18
	. Pitch 1 to:	8
	. Connection	
	1&2 Wye	
38	. Lead Length	н
	. Lead Size	
40	. Number of Leads	9
41	. Megger Reading After Rewind	
	. Coil Machine Slot	
43	. Coil Machine Tip	
	Coil Machine Pitch	
45	. Hi Pot Reading After Rewind	
	Surge Pattern After Rewind	
	. Service Technician	Trent
	_	

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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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- 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. <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.