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LR Motor Shop Repairs

Job Number 104979

Prepared for Murray Hydro Plant (10772-MHP)

8th St. & Main St.
N.Little Rock AR 72115

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Hi-Speed Industrial Service
7030 Ryburn Dr
Millington, Tn 38053
901-873-5300

AC Inspection as Found
Murray Hydro Plant (10772-MHP)
8th St. & Main St.
N.Little Rock, AR 72115

FolderID: 104979
FormID: 25350986

AC Inspection - Rev. 2

Location: MOTOR SHOP LR

Serial Number: 861860H-1

Description:40 HP KRANCO

Hi-Speed Job Number: 104979

Manufacturer: Other

Product Number: TYPE-A000

Serial Number: 861860H-1

HP/kW: 40 (HP)

RPM: 1800 (RPM)

Frame: 364U

Voltage: 460

Current: 47.7

Phase: Three

Hz: 60 (Hz)

Enclosure: TENV

of Leads: 3

J-box Included: Half

Coupling/Sheave: Coupling

Date Received: 08/01/2025

Bearing RTDs: No

Stator RTDs: Yes

Repair Stage: Final

Rewind: Yes

Shaft Machined Fit Repairs Required: No

Bearing Housing Machined Fit Repairs Required: Dr End Bell Needs Sleeve

Heaters: No

Winding Type : Random Wound

Bearing Type: Rolling Element

Priorities Found: ● **2 - High** ● **15 - Good**

Overall Condition

1. Report Date

08/01/2025

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1.0

2. Nameplate Picture



3. Photos of all six sides of the machine.



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4. Describe the Overall Condition of the Equipment as Received	
<i>Full of Carbon</i>	
5. Is this a UL Listed Motor	(NO) NO
6. Is the motor water cooled or can be pressure checked before teardown	(NO) NO
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 Inches
11. Distance from the end of the shaft to the Coupling/Sheave	inches
<i>Flush</i>	
12. Assembled Shaft End Play	inches
13. Air Gap Variation <10%	
14. Lead Condition	(P) Pass
15. Lead Length	12 Inches
16. Does it have Lugs?, If so what is the Stud Size?	(YES) YES
<i>3/8</i>	
17. Lead Numbers	
<i>123 stator</i>	
<i>123 rotor</i>	
18. Are the Leads insulated with Chico or other material	(YES) YES

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19. Stator Temperature Detector Rating and Function		
Quantity	Rating	Quantity Passed
Needs new thermal overload		
20. Frame Condition		good
21. Fan Condition		(N) NA
22. Does motor have internal fan?		(NO) NO
23. Broken or Missing Components		no
Initial Electrical Inspection		
24. Insulation Resistance/Megger		Megohms
Fail		
25. Winding Resistance		
1-2	1-3	2-3
26. Perform Surge Test		
27. Number of Stator Slots		
28. Stator Condition		okay
29. Stator Thermistors/Ohms		
30. Stator Overloads/Ohms		.3
Mechanical Inspection		
31. Drive End Bearing Brand		SKF
32. Drive End Bearing Number-		6312
33. Drive End Bearing Qty.		1
34. Drive End Bearing Type		(Ball) Ball Bearing
35. Drive End Lubrication Type		(Grease) Grease Lubricated
36. Drive End Bearing Insulation or Grounding Device?		
37. Drive End Wavy Washer/Snap-Ring Other Retention Device?		shims in endbell
38. Drive End Bearing Condition		



39. Opposite Drive End Bearing Brand	SKF
40. Opposite Drive End Bearing Number-	6311
41. Opposite Drive End Bearing Qty.	1
42. Opposite Drive End Bearing Type	(Ball) Ball Bearing
43. Opposite Drive End Lubrication Type	(Grease) Grease Lubricated
44. Opposite Drive End Bearing Insulation or Grounding Device?	
45. Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?	

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46. Opposite Drive End Bearing Condition



47. Drive End Seal

48. Opposite Drive End Seal



Rotor Inspection	
49. Rotor Type/Material	
 Wound rotor	
50. Growler Test	(Pass) Pass
51. Number of Rotor Bars	
52. Rotor Condition	
53. List the Parts needed for the Repair Below	
1-6312zz 1-6311zz 12 brushes 1020- E3 New coupling customer provide info Rewind stator and rotor New slip ring needed	

54. Signature of Technician that Disassembled Motor




Mechanical Fits- Rotor

55. Shaft Runout 0 inches

56. Rotor Runout

Drive End Bearing Fit

Rotor Body

Opposite Drive End Bearing

57. Coupling Fit Closest to Bearing Housing

0 Degrees

90 Degrees

120 Degrees

58. Coupling Fit Closest to the end of the Shaft

0 Degrees

60 Degrees

120 Degrees

59. Drive End Bearing Shaft Fit

0 Degrees

60 Degrees

120 Degrees

5.1161

60. Drive End Bearing Shaft Fit Condition

(P) Pass

61. Opposite Drive End Bearing Shaft Fit

0 Degrees

60 Degrees

120 Degrees

62. Opposite Drive End Bearing Shaft Fit Condition

(P) Pass

63. Shaft Air Seal Fits

Drive End Air Seal

Opposite Drive End Air Seal

Mechanical Fits- Bearing Housings

64. Drive End - Endbell Bearing Fit

0 Degrees

60 Degrees

120 Degrees

5.1161

65. Drive End - Endbell Bearing Fit Condition

(F) Fail

66. Opposite Drive End - Endbell Bearing Fit

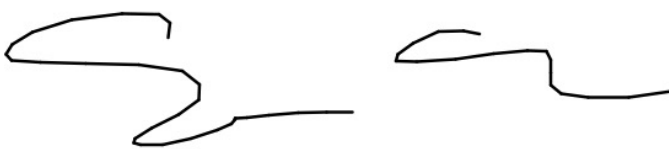
0 Degrees

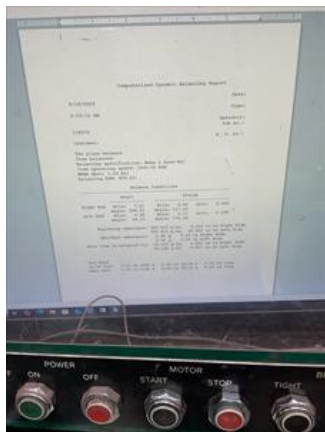
60 Degrees

120 Degrees

4.7273

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67. Opposite Drive End - Endbell Bearing Fit Condition	(P) Pass
68. Bearing Cap Condition	
Drive End Bearing Cap	Opposite Drive End Bearing Cap
69. End Bell Air Seal Fits	
Drive End Air Seal	Opposite Drive End Air Seal
70. List Machine Work Needed Below <i>DE housing resleeved</i>	
71. Technician	
	
Root Cause of Failure	
72. Failure locations <i>Windings</i>	
73. Root cause of failure <i>Carbon build up. Lack of timely service</i>	
Dynamic Balance Report	
74. Rotor Weight and Balance Grade	
Rotor Weight	Balance Grade



75. Initial Balance Readings		
Drive End	Opposite Drive End	
7.21	6.98	
76. Final Balance Readings		
Drive End	Opposite Drive End	
.28	.17	
77. Technician		RW
		

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Rewind			
78.	Core Test Results - Watts loss per Pound		
	Pre-Burnout	Post Burnout	
79.	Core Hot Spot Test		
	Pre-Burnout	Post-Burnout	
80.	Post Rewind Electrical Test- Insulation Resistance		Megohms
81.	Post Rewind Polarization Index		Polarization Index
82.	Post Rewind Winding Resistance		
	1-2	1-3	2-3
83.	Post Rewind Surge Test		
84.	THERMAL DETECTION EQUIPMENT FINAL TESTING - RTD'S/KLIXONS/THERMISTORS		
85.	Post Rewind Hi-Pot		micro-amps
86.	Technician		
Mechanical Fits- Bearing Housings - Post Repair			
87.	Drive End - Endbell Bearing Fit Post Repair		
	0 Degrees	60 Degrees	120 Degrees
	5.1191	5.1191	5.1191



88. Opposite Drive End - Endbell Bearing Fit Post Repair		
0 Degrees	60 Degrees	120 Degrees
4.7247	4.7247	4.7247



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
91. End Bell Repair Sign-off		RW
		
Assembly		
92. QC Check All Parts for Cleanliness Prior to Assembly		RW
		

93. Photograph All Major Components prior to assembly

(Complete) Complete



94. Was a Insulated bearing or end bell tested?

(NA) Not Applicable

95. Final Insulation Resistance Test

28.46 Megohms



Slip ring

Stator

96. Assembled Shaft Endplay	inches		
97. Assembled Shaft Runout	0.0003 inches		
98. Test Run Voltage			
Volts	Volts	Volts	
452	449	454	



Co sign TRH

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99. Test Run Amperage		
Amps	Amps	Amps
11.4	9.699999999999999	9.800000000000001



100. Motor RPM			1800
101. Drive End Vibration Readings - Inches Per Second			
Horizontal	Vertical		Axial
0.09	0.05		0.06
102. Opposite Drive End Vibration Readings - Inches Per Second			
Horizontal	Vertical		Axial
0.07000000000000001	0.05		0.06
103. Ambient Temperature - Fahrenheit			
104. Drive End Bearing Temps - Fahrenheit			
5 Minutes	10 Minutes		15 Minutes
105. Opposite Drive End Bearing Temps - Fahrenheit			
5 Minutes	10 Minutes		15 Minutes
106. Document Final Condition with Pictures after paint			



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107. Final Pics and QC Review

RW

Co-sign: TRH



Hi-Speed Industrial Service
7030 Ryburn Dr
Millington, Tn 38053
901-873-5300

AC Random Coil Rewind Report

FolderID: 104979
FormID: 25382300

Murray Hydro Plant (10772-MHP)

8th St. & Main St.
N.Little Rock, AR 72115

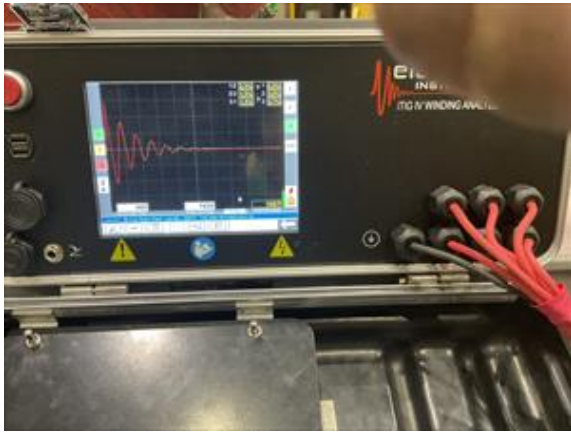
MOTOR SHOP LR

Priorities Found: 1 - High 6 - Good

General	
1. Job Number	104979
2. Report Date	08/04/2025
3. Customer	Murray Hydro Dam
Stator Winding	
4. Core Length	"
Rotor Iron & Stator Iron Rotor Iron-7.625 Stator Iron 7.5	
5. Core ID	"
Rotor ID 10.5 Stator ID10.5	
6. Back Iron Depth	"
Rotor Back Iron 2.5 Stator Back Iron1.25	
7. Slot Depth	"
Rotor Slot Depth 1.25 Stator slot Depth1.187	
Stator Slot Depth	
8. Tooth Width	"
Rotor Tooth Width.26 Stator Tooth Width .25	
9. Number of Vents	
10. Vent Width	"
11. Before Burnout Core loss	(P) Pass
Rotor Pass Stator Pass	
12. Flux Before Burnout	
13. Watts before burnout	
14. Watts loss per lb. before burnout	W/lbs.
Rotor-0.971 Stator-1.496	
15. After Burnout Core Loss	(P) Pass
16. Flux After burnout	
17. Watts After Burnout	Watts
18. Watts loss per lb After Burnout	W/lbs.
Stator 1.126 Rotor .821	
19. Core Iron Condition	
20. RTD's	(N) No

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21.	RTD's Reading	Ohm's
● 22.	Motor Heaters	(N) No
23.	Heater Qty.	
24.	Heater Voltage	Volts
25.	Heater Wattage	Watts
● 26.	Thermistors	(N) No
27.	Number of Poles	4
28.	Slots	
	Rotor has 42 Slots Stator has 72 Slots	
29.	Number of Coils	
	Rotor has 42 Coils Stator has 72 Coils	
30.	Coil Weight	Lbs.
	Stator-60LBS 40LBS#17 20LBS#18 Roror-30LBS 15LBS#17 15LBS#18	
31.	Lead Markings	
32.	Grouping	
	Rotor has Odd Grouping 6 Group of 4 /6 groups of 3 Stator has 12 groups 6	
● 33.	Multiple Wires	(Y) Yes
34.	Wire Size	
	6#17 stator 2#18 stator 3#18 rotor 2#17 rotor	
35.	Turns per coil	
	Stator T/C-6 Rotor T/C-8	
36.	Pitch 1 to:	
	Stator pitch 14 Rotor pitch-10	
37.	Connection	
	Stator-1Delta Rotor-2wye	
38.	Lead Length	10 "
39.	Lead Size	#6
40.	Number of Leads	3
41.	Megger Reading After Rewind	28748 Mohms
	Stator-28748 Rotor-2535	
42.	Coil Machine Slot	
43.	Coil Machine Tip	
44.	Coil Machine Pitch	
45.	Hi Pot Reading After Rewind	0.02714 Ua
	Stator-0.03 Rotor-0.19535	
● 46.	Surge Pattern After Rewind	(P) Pass



Stator

Stator



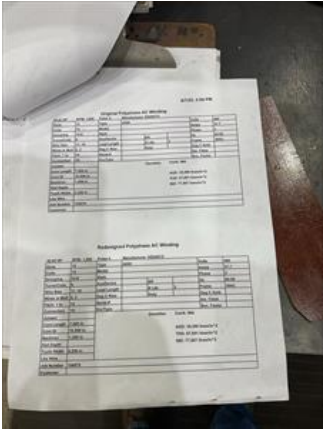
Rotor

Rotor

47. Service Technician

Donny Spears

60LBS
40LBS#17
20LBS#18
10" #6 EXAR LEAD WIRE stator
Rotor 30LBS
15LBS#17
15LBS#18
3" #6 EXAR Lead wire



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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, earthquake, 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. **NONWAIVER.** 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.