

LR Motor Shop Repairs

Job Number 101688

Prepared for Huber Specialty Hydrates, LLC (11913)

4750 Alcoa Road Bauxite AR 72011

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AC Inspection as Found

Huber Specialty Hydrates, LLC (11913)

4750 Alcoa Road Bauxite, AR 72011

AC Inspection - Rev. 2

Location: MOTOR SHOP LR

Serial Number: F0505260251

Description:5HP BALDOR 3600RPM 56C

Hi-Speed Job Number:	101688
Manufacturer:	Baldor
Product Number:	VM3513
Spec/ID #:	35F426X139
Serial Number:	F0505260251
HP/kW:	5 (HP)
RPM:	3450 (RPM)
Frame:	56C
Voltage:	230 / 460
Current:	12.8/6.4
Phase:	Three
Hz:	60 (Hz)
Service Factor:	1.15
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:	Yes
Heaters:	No
Winding Type :	Random Wound
Bearing Type:	Rolling Element

Priorities Found: **2 - High**





7 - Good

Overall Condition

1. Report Date

2. Nameplate Picture



3. Photos of all six sides of the machine.





























4. Describe the Overall Condition of the Equipment as Received

Initial Mechanical/Electrical

5. Does Shaft Turn Freely?

(Yes) Yes

6. Does Shaft Have Visible Damage?







7.	Assembled Shaft Runout	0.001 Inches
8.	Assembled Shaft End Play	
9.	Air Gap Variation <10%	
10.	Lead Condition	(P) Pass
11.	Lead Length	9.5 Inches

12.	Lead Numbers	1-9
-	Delta	
13.	Frame Condition	pass
14.	Fan Condition	(P) Pass





15.	Broken or Missing Components	nts connection box		
Initial	Initial Electrical Inspection			
16.	Insulation Resistance/Megger			
17.	Winding Resistance			
	1-2	1-3	2-3	
18.	Perform Surge Test			(F) Fail
-	Turn to turn short.			



19.	Number of Stator Slots	24 Megohms
20.	Stator Condition	rewind
21.	Stator Thermistors/Ohms	none
22.	Stator Overloads/Ohms	none
Mecha	anical Inspection	
23.	Drive End Bearing Brand	SKF



25. Drive End Bearing Qty.	1
26. Drive End Bearing Type	(Ball) Ball Bearing
27. Drive End Lubrication Type	(Grease) Grease Lubricated
28. Drive End Bearing Insulation or Grounding Device?	none
29. Drive End Wavy Washer/Snap-Ring Other Retention Device?	none
30. Drive End Bearing Condition	replace
31. Opposite Drive End Bearing Brand	NSK
32. Opposite Drive End Bearing Number-	6203



33. Opposite Drive End Bearing Qty.	1
34. Opposite Drive End Bearing Type	(Ball) Ball Bearing
35. Opposite Drive End Lubrication Type	(Grease) Grease Lubricated
36. Opposite Drive End Bearing Insulation or Grounding	Device? none
37. Opposite Drive End Wavy Washer/Snap-Ring Other	Retention Device? wavy washer



38.	Opposite Drive End Bearing Condition
-----	--------------------------------------

replace

- 39. Drive End Seal
- 40. Opposite Drive End Seal

Rotor Inspection

41. Rotor Type/Material

(Squirrel Aluminum) Squirrel Cage Aluminum Die Cast



42. Growler Test	(Pass) Pass
43. Number of Rotor Bars	20
44. Rotor Condition	pass
45. List the Parts needed for the Repair Below	
46. Signature of Technician that Disassembled Motor	Terrence Holland

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Mechanical Fits- Rotor

47. Shaft Runout 0.001 inches

48. Rotor Runout

Drive End Bearing Fit Rotor Body Opposite Drive End Bearing

	49.	Coupling Fit Closest to Bearing Housing			
		0 Degrees	90 Degrees	120 Degrees	
	50.	Coupling Fit Closest to the end of the	Shaft		
		0 Degrees	60 Degrees	120 Degrees	
	51.	Drive End Bearing Shaft Fit			
		0 Degrees	60 Degrees	120 Degrees	
		0.9849	0.9849	0.9849	
	52.	<u> </u>			(P) Pass
	53.	Opposite Drive End Bearing Shaft Fit			
		0 Degrees	60 Degrees	120 Degrees	
		0.6697	0.66896	0.6697	
	54.	54. Opposite Drive End Bearing Shaft Fit Condition			(P) Pass
	55.	Shaft Air Seal Fits			
		Drive End Air Seal	Opposite Drive End Air Seal		
N		chanical Fits- Bearing Housings			
	56.	Drive End - Endbell Bearing Fit			
		0 Degrees	60 Degrees	120 Degrees	
		2.0475	2.0477	2.0477	
	57.	Drive End - Endbell Bearing Fit Condition	tion		(P) Pass
	58.	Opposite Drive End - Endbell Bearing	Fit		
		0 Degrees	60 Degrees	120 Degrees	
	-	Fit is cracked			
	59.	Opposite Drive End - Endbell Bearing	Fit Condition		(F) Fail
	-	Flt cracked			



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61. End Bell Air Seal Fits	
Drive End Air Seal Opposite Drive End Air Seal	
62. List Machine Work Needed Below	
ODE housing fit	
63. Technician	Terrence Holland
7/1//_/	
- Hr W-	

Dynamic Balance Report

64. Rotor Weight and Balance Grade

Rotor Weight Balance Grade

65. Initial Balance Readings

Drive End Opposite Drive End

66. Final Balance Readings

Drive End Opposite Drive End

67. Technician

Rewind

68. Core Test Results - Watts loss per Pound

Pre-Burnout Post Burnout

69. Core Hot Spot Test

Pre-Burnout Post-Burnout

- 70. Post Rewind Electrical Test- Insulation Resistance
- 71. Post Rewind Polarization Index

72.	Post Rewind Winding Resistance		
	1-2	1-3	2-3
73.	Post Rewind Surge Test		
74.	Post Rewind Hi-Pot		
75.	Technician		
Root	Cause of Failure		
76.	Failure locations		
77.	Root cause of failure		
Mech	anical Fits- Bearing Housings - P	ost Repair	
78.	Drive End - Endbell Bearing Fit Post F	Repair	
	0 Degrees	60 Degrees	120 Degrees
79.	Opposite Drive End - Endbell Bearing	Fit Post Repair	
	0 Degrees	60 Degrees	120 Degrees
80.	Bearing Cap Condition Post Repair		
	Drive End Bearing Cap	Opposite Drive End Bearing Cap	
01	End Pall Air Saal Eita Doot Panair		
01.	End Bell Air Seal Fits Post Repair	Opposite Drive Ford Air Cool	
	Drive End Air Seal	Opposite Drive End Air Seal	
82.	End Bell Repair Sign-off		
	Assembly		
70001	11019		

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83. QC Check All Parts for Cleanliness Prior to Assembly







84.	Photograph All Major Components pri	or to assembly	
85.	Final Insulation Resistance Test		
86.	Assembled Shaft Endplay		
87.	Assembled Shaft Runout		
88.	Test Run Voltage		
	Volts	Volts	Volts
89.	Test Run Amperage		
	Amps	Amps	Amps
90.	Drive End Vibration Readings - Inches	s Per Second	
	Horizontal	Vertical	Axial
91.	Opposite Drive End Vibration Reading	gs - Inches Per Second	
	Horizontal	Vertical	Axial
92.	Ambient Temperature - Fahrenheit		
93.	Drive End Bearing Temps - Fahrenhei	it	
	5 Minutes	10 Minutes	15 Minutes

94. (Opposite Drive End Bearing Temps - F	ahrenheit	
5	5 Minutes	10 Minutes	15 Minutes
95. E	Document Final Condition with Picture	s after paint	
96. F	Final Pics and QC Review		



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

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AC Random Coil Rewind Report

Huber Specialty Hydrates, LLC (11913)

4750 Alcoa Road Bauxite, AR 72011

Priorities Found:

General			
1.	Job Number	101688	
2.	Report Date	08/24/2023	
3.	Customer	Huber	
Stato	Winding		
4.	Core Length	п	



5.	Core ID
6.	Back Iron Depth
7.	Slot Depth
8.	Tooth Width
9.	Number of Vents
10.	Vent Width
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

23. Heater Qty. 24. Heater Voltage 25. Heater Wattage 26. Thermistors 27. Number of Poles 28. Slots 29. Number of Coils 30. Coil Weight 31. Lead Markings 32. Grouping 33. Multiple Wires 34. Wire Size 35. Turns per coil 36. Pitch 1 to: 37. Connection 38. Lead Length 39. Lead Size 40. Number of Leads 41. Megger Reading After Rewind 42. Coil Machine Slot 43. Coil Machine Flich 44. Coil Machine Pitch 45. Surge Pattern After Rewind 46. Surge Pattern After Rewind	22.	Motor Heaters
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45. Hi Pot Reading After Rewind 46. Surge Pattern After Rewind	43.	Coil Machine Tip
46. Surge Pattern After Rewind	44.	Coil Machine Pitch
	45.	Hi Pot Reading After Rewind
47 Sarvice Technician	46.	Surge Pattern After Rewind
47. Service recrimican	47.	Service Technician

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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.