

Motor Shop Repairs

Job Number 99877

Prepared for Little Rock Federal Building

700 W Capital Little Rock AR 72201

Table of Contents

AC Recondition As Found - MOTOR SHOP LR

AC Recondition - Rev. 2: HAN009592

1.0



MOTOR SHOP LR

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

> FolderID: 99877 FormID: 13761620

AC Recondition As Found

Little Rock Federal Building

700 W Capital Little Rock, AR 72201

AC Recondition - Rev. 2

Serial Number: HAN009592

Description: 100HP MARATHON 1800RPM

404TCV

Location:

Hi-Speed Job Number:	99877
Manufacturer:	US Motors/Nidec
Product Number:	CMTTRS61037207
Spec/ID #:	M190009
Serial Number:	HAN009592
HP/kW:	100 (HP)
RPM:	1785 (RPM)
Frame:	405TCV
Voltage:	460
Current:	115
Phase:	Three
Hz:	60 (Hz)
Service Factor:	1.15
Enclosure:	ODP
J-box Included:	None
Coupling/Sheave:	None
Date Received:	06/03/2022
Bearing RTDs:	No
Stator RTDs:	No
Repair Stage:	Final
Heaters:	No
Winding Type :	Random Wound
Bearing Type:	Rolling Element

Priorities Found: **a** 2 - High

5 - Good

Overall Condition

06/06/2022 1. Report Date

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2. Nameplate Picture





























3. Describe the Overall Condition of the Equipment as Received Clean and dry

Initia	Initial Mechanical/Electrical			
• 4.	Does Shaft Turn Freely?	(Yes) Yes		
5.	Does Shaft Have Visible Damage?	(No) No		
6.	Assembled Shaft Runout	Inches		
7.	Assembled Shaft End Play			
8.	Air Gap Variation <10%			
9.	Lead Condition	(P) Pass		
10.	Lead Length	12 Inches		
11.	Frame Condition	good		
12.	Fan Condition	(N) NA		
13.	Broken or Missing Components	none		
Initia	Electrical Inspection			
14.	Insulation Resistance/Megger	0 Megohms		

15.	Mr. P. D. C.	
	Winding Resistance	
	1-2 1-3	2-3
16.	Perform Surge Test	(F) Fail
	Stator Condition	rewind
Mech	anical Inspection	
	Drive End Bearing Number-	6316 2Z
19.	<u> </u>	1 (Pall) Pall Passing
20.	0 71	(Ball) Ball Bearing
21.	· · · · · · · · · · · · · · · · · · ·	(Grease) Grease Lubricated
22.	Drive End Bearing Insulation or Grounding Device? 4.0645 (4 1/16) OD, 3.0 Shaft diameter	pressed in aegis
77.5		
23.	Drive End Wavy Washer/Snap-Ring Other Retention Device?	
23. 24.		good
	Drive End Bearing Condition	good 6313 2RS
24. 25.	Drive End Bearing Condition	
24. 25.	Drive End Bearing Condition Opposite Drive End Bearing Number- Opposite Drive End Bearing Qty.	6313 2RS
24. 25. 26.	Drive End Bearing Condition Opposite Drive End Bearing Number- Opposite Drive End Bearing Qty. Opposite Drive End Bearing Type	6313 2RS 1
24. 25. 26. 27.	Drive End Bearing Condition Opposite Drive End Bearing Number- Opposite Drive End Bearing Qty. Opposite Drive End Bearing Type Opposite Drive End Lubrication Type	6313 2RS 1 (Ball) Ball Bearing
24. 25. 26. 27. 28.	Drive End Bearing Condition Opposite Drive End Bearing Number- Opposite Drive End Bearing Qty. Opposite Drive End Bearing Type Opposite Drive End Lubrication Type Opposite Drive End Bearing Insulation or Grounding Device?	6313 2RS 1 (Ball) Ball Bearing
24. 25. 26. 27. 28. 29.	Drive End Bearing Condition Opposite Drive End Bearing Number- Opposite Drive End Bearing Qty. Opposite Drive End Bearing Type Opposite Drive End Lubrication Type Opposite Drive End Bearing Insulation or Grounding Device? Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?	6313 2RS 1 (Ball) Ball Bearing (Grease) Grease Lubricated
24. 25. 26. 27. 28. 29.	Drive End Bearing Condition Opposite Drive End Bearing Number- Opposite Drive End Bearing Qty. Opposite Drive End Bearing Type Opposite Drive End Lubrication Type Opposite Drive End Bearing Insulation or Grounding Device? Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device? Opposite Drive End Bearing Condition	6313 2RS 1 (Ball) Ball Bearing (Grease) Grease Lubricated wavy washer
24. 25. 26. 27. 28. 29. 30. 31.	Drive End Bearing Condition Opposite Drive End Bearing Number- Opposite Drive End Bearing Qty. Opposite Drive End Bearing Type Opposite Drive End Lubrication Type Opposite Drive End Bearing Insulation or Grounding Device? Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device? Opposite Drive End Bearing Condition	6313 2RS 1 (Ball) Ball Bearing (Grease) Grease Lubricated wavy washer
24. 25. 26. 27. 28. 29. 30. 31. 32.	Drive End Bearing Condition Opposite Drive End Bearing Number- Opposite Drive End Bearing Qty. Opposite Drive End Bearing Type Opposite Drive End Lubrication Type Opposite Drive End Bearing Insulation or Grounding Device? Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device? Opposite Drive End Bearing Condition Drive End Seal	6313 2RS 1 (Ball) Ball Bearing (Grease) Grease Lubricated wavy washer
24. 25. 26. 27. 28. 29. 30. 31. 32. 33.	Drive End Bearing Condition Opposite Drive End Bearing Number- Opposite Drive End Bearing Qty. Opposite Drive End Bearing Type Opposite Drive End Lubrication Type Opposite Drive End Bearing Insulation or Grounding Device? Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device? Opposite Drive End Bearing Condition Drive End Seal Opposite Drive End Seal	6313 2RS 1 (Ball) Ball Bearing (Grease) Grease Lubricated wavy washer

36. Number of Rotor Bars

38. List the Parts needed for the Repair Below

Rewind, 6316 2Z, 6313 2RS. Recommend replace aegis ring.

37. Rotor Condition

52 good

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	39.	Signature of Technician that Disassembled Motor		David Maclin
		1/1/1		
M	echa	anical Fits- Rotor		
	40.	Shaft Runout		
	41.	Rotor Runout		
		Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing
	42.	Coupling Fit Closest to Bearing Housing	ng	
		0 Degrees	90 Degrees	120 Degrees
	43.	Coupling Fit Closest to the end of the	Shaft	
		0 Degrees	60 Degrees	120 Degrees
	44.	Drive End Bearing Shaft Fit		
		0 Degrees	60 Degrees	120 Degrees
	45.	Drive End Bearing Shaft Fit Condition		(P) Pass
	46.	Opposite Drive End Bearing Shaft Fit		
		0 Degrees	60 Degrees	120 Degrees
	47.	Opposite Drive End Bearing Shaft Fit	Condition	(P) Pass
	48.	Shaft Air Seal Fits		
		Drive End Air Seal	Opposite Drive End Air Seal	
M	echa	anical Fits- Bearing Housings		
	49.	Drive End - Endbell Bearing Fit		
		0 Degrees	60 Degrees	120 Degrees
	50.	Drive End - Endbell Bearing Fit Condit	tion	(P) Pass
	51.	Opposite Drive End - Endbell Bearing	Fit	
		0 Degrees	60 Degrees	120 Degrees
	52.	Opposite Drive End - Endbell Bearing	Fit Condition	(F) Fail
	53.	Bearing Cap Condition		
		Drive End Bearing Cap	Opposite Drive End Bearing Cap	
	54.	End Bell Air Seal Fits		
		Drive End Air Seal	Opposite Drive End Air Seal	
	55.	List Machine Work Needed Below		
	56.	Technician		
D	ynar	nic Balance Report		
	57.	Rotor Weight and Balance Grade		
		Rotor Weight	Balance Grade	

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58	Initial Balance Readings				
50.	Drive End	Opposite Drive End			
	Drive Eria	Opposite Drive End			
59.	Final Balance Readings				
	Drive End	Opposite Drive End			
		opposite z into zina			
60.	Technician				
Rewir	Rewind				
61.	Core Test Results - Watts loss per Po	bund			
	Pre-Burnout	Post Burnout			
00					
62.	Core Hot Spot Test	5 . 5			
	Pre-Burnout	Post-Burnout			
63.	Post Rewind Electrical Test- Insulation	n Resistance			
	64. Post Rewind Polarization Index 65. Post Rewind Winding Resistance				
65.					
	1-2	1-3	2-3		
	Post Rewind Surge Test				
	Post Rewind Hi-Pot				
	Technician				
	Cause of Failure				
69.	Failure locations				
70	Stator, ODE bearing cap				
70.	Root cause of failure	asking can and wore replaced. However a piece	of the broken helt was not removed		
At some point the bolts broke on the bearing cap and were replaced. However a piece of the broken bolt was not remove from the interior of the motor and was slung around in the stator. This piece hit the windings and caused the motor to short to ground.					
Mech	anical Fits- Rotor - Post Repair				
71.	Shaft Runout Post Repair				
72.	Rotor Runout Post Repair				
	Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing		
73.	Coupling Fit Closest to Bearing Hous	ng Post Repair			
	0 Degrees	90 Degrees	120 Degrees		
74.	Coupling Fit Closest to the end of the				
	0 Degrees	60 Degrees	120 Degrees		
75	Drive End Bearing Shaft Fit Post Rep	air			
73.	0 Degrees	60 Degrees	120 Degrees		
	Dogicos	oo Dogicoo	120 Dogioos		
76.	Opposite Drive End Bearing Shaft Fit	Post Repair			
	0 Degrees	60 Degrees	120 Degrees		
77.	Shaft Air Seal Fits Post Repair				
Drive End Air Seal Opposite Drive End Air Seal					
78.	Shaft Repair Sign-off				

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Mechanical Fits- Bearing Housings - Post Repair79. Drive End - Endbell Bearing Fit Post Repair0 Degrees60 Degrees80. Opposite Drive End - Endbell Bearing Fit Post Repair0 Degrees60 Degrees5.51245.5124



81. Bearing Cap Condition Post Repair

Drive End Bearing Cap Opposite Drive End Bearing Cap

82. End Bell Air Seal Fits Post Repair

Drive End Air Seal Opposite Drive End Air Seal

83. End Bell Repair Sign-off

Assembly

- 84. Photograph All Major Components prior to assembly
- 85. Final Insulation Resistance Test
- 86. Assembled Shaft Endplay
- 87. Assembled Shaft Runout
- 88. Test Run Voltage

Volts Volts Volts 459 462



89. Test Run Amperage

Amps	Amps	Amps
36.2	35.4	35.9



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90.	Drive End Vibration Readings - Inches Per Second			
	Horizontal	Vertical	Axial	
	0.04	0.06	0.01	
91.	Opposite Drive End Vibration Readings - Inches Per Second			
	Horizontal	Vertical	Axial	
	0.03	0.06	0.01	
92.	2. Ambient Temperature - Fahrenheit			
93.	93. Drive End Bearing Temps - Fahrenheit			
	5 Minutes	10 Minutes	15 Minutes	
94.	4. Opposite Drive End Bearing Temps - Fahrenheit			
	5 Minutes	10 Minutes	15 Minutes	
95.	Final Test Run Sign-off			
96.	Document Final Condition with Picture	as after naint		yes





97. Final Pics and QC Review RW









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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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- 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.