

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

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FolderID: 101123 FormID: 16279149

AC Recondition As Found

Remington (10243)

2592 AR Hwy 15 N Lonoke, AR 72086

AC Recondition - Rev. 2

MOTOR SHOP LR Location: Serial Number: 63 07345 692

Description: 20HP US MOTORS 3600RPM 254T

Hi-Speed Job Number:	101123
Manufacturer:	US Motors/Nidec
Product Number:	63 07345 692
Spec/ID #:	63 07345 692
Serial Number:	63 07345 692
HP/kW:	20 (HP)
RPM:	3505 (RPM)
Frame:	254T
Voltage:	230 / 460
Current:	51.6/25.6
Phase:	Three
Hz:	60 (Hz)
Enclosure:	TEFC
J-box Included:	Complete
Coupling/Sheave:	None
Bearing RTDs:	No
Stator RTDs:	No
Repair Stage:	Final
Heaters:	No
Winding Type :	Random Wound
Bearing Type:	Rolling Element

Priorities Found: 4 - High



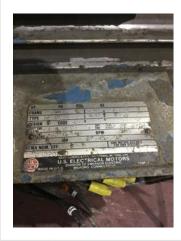


5 - Good

Overall Condition

Report Date





Photos of all six sides of the machine.

P45





























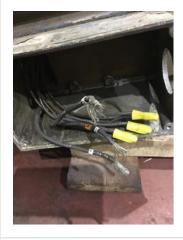
4. Describe the Overall Condition of the Equipment as Received Serviceable

Initial Mechanical/Electrical 5. Does Shaft Turn Freely? 6. Does Shaft Have Visible Damage? (No) No P18



7.	Assembled Shaft Runout	0.015 Inches
8.	Assembled Shaft End Play	
9.	Air Gap Variation <10%	

10. Lead Condition (P) Pass P54





11. Lead Length12. Frame Condition8 Inchespass







14. Broken or Missing Components

14.	Broken or Missing Components				
Initial	Electrical Inspection			1	o
15.	Insulation Resistance/Megger			Megohms	
16.	Winding Resistance				
	1-2	1-3	2-3		
17.	Perform Surge Test			(F) Fail	
18.	Number of Stator Slots				
19.	Stator Condition			rewind.	P68



Mechanical Inspection

20. Drive End Bearing Brand

nsk

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22. Drive End Bearing Qty.

23. Drive End Bearing Type (Ball) Ball Bearing P50



24.	Drive End Lubrication Type	(Grease) Grease Lubricated	
25.	Drive End Bearing Insulation or Grounding Device?	none	
26. •	Drive End Wavy Washer/Snap-Ring Other Retention Device? Needs replacing	snap ring	
27.	Drive End Bearing Condition	worn	
28.	Opposite Drive End Bearing Brand	nachi	
29.	Opposite Drive End Bearing Number-	6207	P86



30. Opposite Drive End Bearing Qty.

1





32.	Opposite Drive End Lubrication Type	(Grease) Grease Lubricated
33.	Opposite Drive End Bearing Insulation or Grounding Device?	none
34.	Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?	none
35.	Opposite Drive End Bearing Condition	worn
36.	Drive End Seal	none
37.	Opposite Drive End Seal	

Rotor Inspection

38. Rotor Type/Material (Squirrel Aluminum) Squirrel P3
Cage Aluminum Die Cast



39.	Growler Test	(Pass) Pass	
40.	Number of Rotor Bars		
41.	Rotor Condition	pass	
42.	List the Parts needed for the Repair Below		
	Repair bent shaft		
43	Signature of Technician that Disassembled Motor	Terrence Holland	

Mechanical Fits- Rotor

44. Shaft Runout 0.017 inches

	45.	Rotor Runout		
		Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing
	46.	Coupling Fit Closest to Bearing	Housing	
		0 Degrees	90 Degrees	120 Degrees
	47.	Coupling Fit Closest to the end of	of the Shaft	
		0 Degrees	60 Degrees	120 Degrees
	48.	Drive End Bearing Shaft Fit		
		0 Degrees	60 Degrees	120 Degrees
		1.969	1.9689	1.969
	49.	Drive End Bearing Shaft Fit Con	dition	(P) Pass
	50.	Opposite Drive End Bearing Sha	aft Fit	
		0 Degrees	60 Degrees	120 Degrees
		1.378	1.3781	1.3781
	51.	Opposite Drive End Bearing Sha	aft Fit Condition	(P) Pass
	52.	Shaft Air Seal Fits		
		Drive End Air Seal	Opposite Drive End Air Seal	
Me	echa	nical Fits- Bearing Housings		
	53.	Drive End - Endbell Bearing Fit		
		0 Degrees	60 Degrees	120 Degrees
		4.3321	4.3325	
	54.	Drive End - Endbell Bearing Fit	Condition	(F) Fail
	55.	Opposite Drive End - Endbell Be	earing Fit	
		0 Degrees	60 Degrees	120 Degrees
		2.8364	2.8362	
	56.	Opposite Drive End - Endbell Be	earing Fit Condition	(F) Fail
	57.	Bearing Cap Condition		
		Drive End Bearing Cap	Opposite Drive End Bearing Cap	
		pass		
	58.	End Bell Air Seal Fits		
		Drive End Air Seal	Opposite Drive End Air Seal	
	59.	List Machine Work Needed Belo	w	
			Re-sleeve both end bell housing fits.	
	60.	Technician		Terrence Holland
	-)		
	/-	4		
Dy	nam	ic Balance Report		
	61.	Rotor Weight and Balance Grad	e	

Rotor Weight Balance Grade

62.	Initial Balance Readings				
	Drive End	Opposite Drive End			
	Dilve Ella	Opposite Brive Life			
63.	Final Balance Readings				
	Drive End	Opposite Drive End			
64.	Technician				
Rewin					
65.	Core Test Results - Watts loss pe	er Pound			
	Pre-Burnout	Post Burnout			
66.	Core Hot Spot Test				
00.		D . D .			
	Pre-Burnout	Post-Burnout			
67.	Post Rewind Electrical Test-Insu	lation Resistance			
68.	Post Rewind Polarization Index				
69.	Post Rewind Winding Resistance				
	1-2	1-3	2-3		
	1-2	1-3	2-3		
70.	Post Rewind Surge Test				
71.	Post Rewind Hi-Pot				
72.	Technician				
Root C	Cause of Failure				
73.					
70.	Winding coil shorted. D.E bearing	anga failura			
7.1		cage ranure.			
	74. Root cause of failure				
Mechanical Fits- Rotor - Post Repair					
75.	Shaft Runout Post Repair				
76.	Rotor Runout Post Repair				
	Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing		
	3	,	11		
77.	Coupling Fit Closest to Bearing H	ousing Post Repair			
11.		• •	100 D		
	0 Degrees	90 Degrees	120 Degrees		
78.	Coupling Fit Closest to the end of	the Shaft Post Repair			
	0 Degrees	60 Degrees	120 Degrees		
		v			
79.	Drive End Bearing Shaft Fit Post	Renair			
13.	-	·	120 Degrees		
	0 Degrees	60 Degrees	120 Degrees		
80.	Opposite Drive End Bearing Shaf	t Fit Post Repair			
	0 Degrees	60 Degrees	120 Degrees		
	<u> </u>	- J			
81.	Shaft Air Seal Fits Post Repair				
01.		Opposite Dates Find Als Cont			
	Drive End Air Seal	Opposite Drive End Air Seal			
82.	Shaft Repair Sign-off				

Mecha	nical Fits- Bearing Housings -	Post Repair		
83.	Drive End - Endbell Bearing Fit Po	-		
	0 Degrees	60 Degrees	120 Degrees	
	1 - 19.111	20 - 19.000		
84.	84. Opposite Drive End - Endbell Bearing Fit Post Repair			
	0 Degrees	60 Degrees	120 Degrees	
	3		3 111	
85.	Bearing Cap Condition Post Repair	ir		
	Drive End Bearing Cap	Opposite Drive End Bearing Cap		
	ğ ,			
86.	End Bell Air Seal Fits Post Repair			
	Drive End Air Seal	Opposite Drive End Air Seal		
87.	End Bell Repair Sign-off			
Assem	bly			
88.	B. QC Check All Parts for Cleanliness Prior to Assembly			
89.	Photograph All Major Components	s prior to assembly		
90.	Final Insulation Resistance Test			
91.	Assembled Shaft Endplay			
92.	Assembled Shaft Runout			
93.	Test Run Voltage			
	Volts	Volts	Volts	
94.	Test Run Amperage			
	Amps	Amps	Amps	
95.	Drive End Vibration Readings - Inc			
	Horizontal	Vertical	Axial	
00	Opposite Daire Ford Village Co. D	diama Inakaa Day Ossassi		
	Opposite Drive End Vibration Real	_	A I	
	Horizontal	vertical	Axial	
97.	Ambient Temperature - Fahrenhei	t		
98.	Drive End Bearing Temps - Fahren			
30.	5 Minutes	10 Minutes	15 Minutes	
	J WIII IULGS	TO MITTUES	10 Milliates	
99.	Opposite Drive End Bearing Temp	s - Fahrenheit		
33.	5 Minutes	10 Minutes	15 Minutes	
100.	Document Final Condition with Pic	ctures after paint		
	Final Pics and QC Review	·		

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