

DC Repair Report Nextwire, LLC (11959) 701 E Arkansas Ave

Star City, AR 71667

Location:	MOTOR SHOP LR
Job Number:	100119
Serial Number:	QCCAS 160SB/4 GREEN
Status:	In need of Repair
Description:29KW	V OEMER 1500RPM 160S

Hi-Speed Job Number:	100119
Manufacturer:	Other
Product Number :	QCCAS 160SB/4
HP/KW:	29 (kW)
RPM:	1500
Frame:	160S
Armature Voltage:	440 (Volts)
Armature Current:	74 (Amps)
Field Voltage:	330 (Volts)
Field Current :	2.48 (Amps)
J-Box Included:	Yes
Bearing RTDS:	No
Winding RTDS:	No
Mounting Orientation :	Horizontal

Priorities Found: **1 - High**

Overall Condition

Describe the Overall Condition of the Equipment as Received 1.

8 - Good

2. Nameplate Picture





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FolderID: 100119 FormID: 14236411



















































	> 2						
	3.	Distance From the End of the Sha Sheave/Coupling	aft to the end of the Fa	ace of the			
In	itial I	Mechanical/Electrical				0	
	4.	Does the Shaft Turn Freely?				(Y) Yes	
	5.	Does Shaft Have Visible Damage	€?			(Yes) Yes	P20
	6.	Assembled Shaft Runout					
	7.	Assembled Shaft End Play					
	8.	Air Gap Variation <10%					
	9.	Lead Condition				(P) Pass	
	10.	Lead Length					
	11.	Frame Condition				(P) Pass	
	12.	Fan Condition			(NA) N	ot Applicable	
	13.	Brush Information					
		Brush Number	Quantity		Condition		
		E49X	4		pass		
	14.	Brush Holder Condition - Verify p	roper gap to Commuta	ator			
In	comi	ing Electrical Test				0	

15. General Condition of the Armature/Commutator





16.	Armature Insulation Resistance	to Ground		
17.	Field Circuit Insulation Resistar	ice to Ground		
18.	Interpole Circuit Insulation Resi	stance to Ground		
19.	Field Drop Test Fields 1&2			
	Total AC Voltage	Field #1	Field #2	
		60	60	
20.	Field Drop Test Fields 3&4			
	Field #3	Fleld #4		
	60	60		
21.	Field Drop Test Fields 5&6			
	Field #5	Fleld #6		
22.	Field Drop Test Fields 7&8			
	Field #7	Fleld #8		
23.	Interpole Drop Test 1&2			
	Total AC Voltage	Interpole #1	Interpole #2	
		0.32	0.32	
24.	Interpole Drop Test 3&4			
	Interpole #3	Interpole #4		
	0.32	0.33		
25.	Interpole Drop Test 5&6			
	Interpole #5	Interpole #6		
26.	Interpole Drop Test 7&8			
	Interpole #7	Interpole #8		
27.	Armature Number of Bars - Bar	to Bar Test		
	Number of Bars	Bar to Bar Test		
	111	pass		
Necha	inical Inspection			O
28.	Shaft Runout Drive End			inches
-	Key way wallowed out and key d	estroyed.		

29.	Shaft Runout Armature			
	Drive End Bearing Journal	Armature Core	ODE Bearing Journal	
	0		5	
30.	Drive End Bearing Number		310EC	P26
31.	Drive End Bearing Quantity		1	
32.	Drive End Bearing Type		(Roller) Roller Bearing	
33.	Drive End Lubrication Type		(Grease) Grease Lubricated	P53
34.	Drive End Bearing Insulation or ((NA)	
35.	Drive End Wavy Washer/Snap-R	ing Other Retention Device?	none	
36.	Drive End Bearing Condition		grease dirty/contaminated	
37.	Opposite Drive End Bearing Nun	nder	6309 LU	P86

	38.	Opposite Drive End Bearing Quar	ntity	1	
	39.	Opposite Drive End Bearing Type		(Ball) Ball Bearing	
	40.	Opposite Drive End Lubrication T	уре	(Grease) Grease Lubricated	
	41.	Opposite Drive End Bearing Insul	ation or Grounding Device?	(NA)	
	42.	Opposite Drive End Wavy Washe	r/Snap-Ring Other Retention Device?	yes	P109
	43.	Opposite Drive End Bearing Cond	dition	replace	
	44.	Signature of Technician who Perf	ormed Teardown	Terrence. Holland	
	/	- Ar			
	45.	List Parts Needed Prior to Reasse Tach coupling and sheave need rep	embly olacing. Drive end end cap mount bolts	4 ea need replacing.	
Me	echa	nical Fits - Armature			
	46.	Coupling Fit Closest to Bearing H	ousing		
		0 Degrees	60 degrees	120 degrees	
	47.	Coupling Fit Closest to the End of	the Chaft		
	47.	0 Degrees	60 degrees	120 degrees	
		U Degrees	ou degrees	120 0091000	
	48.	Drive End Bearing Shaft Fit			
		0 Degrees	60 Degrees	120 Degrees	
		1.9688	1.9687	1.9686	
	49.	Drive End Bearing Shaft Fit Cond	ition	(P) Pass	
	50.	Opposite Drive End Bearing Shaf	t Fit		
		0 Degrees	60 Degrees	120 Degrees	
		1.7718	1.7719	1.7717	
	51.	Opposite Drive End Bearing Shaf	t Fit Condition	(P) Pass	
	52.	Shaft Air Seal Fits			
		Drive End Air Seal	Opposite Drive End Air Seal		
Me	echa	nical Fits- Bearing Housings			Ō

50	Drive End End Dell Depring Et			
53.	Drive End - End Bell Bearing Fit		100 December 1	
	0 Degrees	60 Degrees	120 Degrees	
	1.9688	1.9687	1.9686	
54.	Drive End - Endbell Bearing Fit C		(P) Pass	
55.				
	0 Degrees	60 Degrees	120 Degrees	
	3.937	3.937	3.9369	
56.	Opposite Drive End - Endbell Be	aring Fit Condition	(P) Pass	
57.	Bearing Cap Condition			
	Drive End	Opposite Drive End		
	pass	na		
58.	End Bell Air Seal Fits			
	Drive End Air Seal	Opposite Drive End Air Seal		
59.	List any Machine work Needed B	elow	D.E. shaft extension key way wallowed out.	P59
60.	Signature of Technician Performi		Terrence. Holland	
Dynam	nic Balance Report			
61.		•		
	Rotor Weight	Balance Grade		
62.	Initial Balance Readings			
	Drive End Readings	Opposite Drive End Readings		
63.	Final Balance Readings			
	Drive End Readings	Opposite Drive End Readings		
64.	Signature of the Balance Technic	sian		
Comm	utator Data			
65.	Total Copper Segment Length			

 Mumber of Bars Number of Wires Per Copper Bar and Size Number of Wires Per Copper Bar and Equalizer Wire Size Equalizers per Copper Bar and Equalizer Wire Size Equalizers per Bar Wire Size Document Commutator Diameter, Minimum and Max Current Comm Diameter Minimum Comm Diameter Maximum Comm Diameter Commutator Shaft Diameter Back Shaft Diameter Signature Insulation Resistance to Ground Post Rewind Field Circuit Masaure the Insulation Resistance to Ground Post Rewind Interpole Circuit Insulation Resistance to Ground Post Rewind Field Circuit Insulation Resistance to Ground Post Rewind Field Drop Test Fields 1&2 Total AC Voltage Field #1 Pield #2 Post Rewind Field Drop Test Fields 5&6 Field #3 Field #6 Post Rewind Field Drop Test Fields 7&8 Field #7 Field #8 	00	Number of Dava		
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Interpole #3 Interpole #4 85. Post Rewind Interpole Drop Test 5&6 Interpole #5 Interpole #6 86. Post Rewind Interpole Drop Test 7&8		Total AC Voltage	Interpole #1	Interpole #2
Interpole #3 Interpole #4 85. Post Rewind Interpole Drop Test 5&6 Interpole #5 Interpole #6 86. Post Rewind Interpole Drop Test 7&8	84	Post Rewind Interpole Drop Teo	st 3&4	
 85. Post Rewind Interpole Drop Test 5&6 Interpole #5 Interpole #6 86. Post Rewind Interpole Drop Test 7&8 	011			
Interpole #5 Interpole #6 86. Post Rewind Interpole Drop Test 7&8				
86. Post Rewind Interpole Drop Test 7&8	85.	Post Rewind Interpole Drop Tes	st 5&6	
		Interpole #5	Interpole #6	
	28	Post Rewind Internale Drop Top	st 7&8	
	00.			

st M	echanical Repair		
87.	•	st to Bearing Housing	
	0 Degrees	60 degrees	120 degrees
88.	Post Repair Coupling Fit Close	st to the End of the Shaft	
	0 Degrees	60 degrees	120 degrees
89.	Post Repair Drive End Bearing	Shaft Fit	
	0 Degrees	60 Degrees	120 Degrees
90.	Post Repair Drive End Bearing		
91.	Post Repair Drive End Opposit	-	
	0 Degrees	60 Degrees	120 Degrees
00			-
92.		e Drive End Bearing Shaft Fit Condition	1
93.	Post Repair Drive End - End Be	-	
	0 Degrees	60 Degrees	120 Degrees
94.	Post Repair Drive End - Endbe	Il Bearing Fit Condition	
9 4 . 95.	Post Repair Opposite Drive En	•	
50.	0 Degrees	60 Degrees	120 Degrees
	0 Degrees	00 Degrees	
96.	Post Repair Opposite Drive En	d - Endbell Bearing Fit Condition	
97.	Post Repair Bearing Cap Cond	•	
	Drive End	Opposite Drive End	
98.	Post Repair End Bell Air Seal F	ïts	
	Drive End Air Seal	Opposite Drive End Air Seal	
99.	0 0	lechanical Repairs	
ssem	•		
	Take Pictures of all Major Com		
101.	Verify Brush Box Holders Have have been Seated Properly	the Proper Clearance, and Brushes	
102.	Assembled Shaft End Play and	Runout	
	Shaft Endplay	Shaft Runout	
103.		cord Armature Voltage and Current	
	Voltage	Current	
104.	Perform No-Load Test Run, Re	-	
	Voltage	Current	
105	Decument Vibratian Deceling		
105.	0		Avial
	Horizontal	Vertical	Axial

106.	Document Vibration Reading	s Opposite Drive End		
	Horizontal	Vertical	Axial	
107.	Perform Full-Load Test Run,	Record Armature Voltage and Current		
	Voltage	Current		
108.	Perform Full-Load Test Run,	Record Field Voltage and Current		
	Voltage	Current		
109.	Document Vibration Reading	s Under Full Load Drive End		
	Horizontal	Vertical	Axial	
110.	Document Vibration Reading	s Under Full Load Opposite Drive End		
	Horizontal	Vertical	Axial	
111.	Ambient Temperature			
112.	Drive End Bearing Temps Ur	nder Full Load		
	5 Minutes	10 Minutes	15 Minutes	
113.	Opposite Drive End Bearing	Temps Under Full Load		
	5 Minutes	10 Minutes	15 Minutes	
	Final Test Run Sign-Off			
115.	Document Final Condition W	ith Pictures		
116.	Final QC Sign-Off			