



## DC Repair Report Nextwire, LLC (11959)

701 E Arkansas Ave Star City, AR 71667

FolderID: 100118 FormID: 14236234

DC Repair Report Rev. 2		
Location: MOTOR SHOP LR		
<b>Job Number:</b> 100118		
Serial Number:	QCCAS 160SB/4 BLUE	
Status:	In need of Repair	
Description:29K	W OEMER 1500RPM 160S	

Hi-Speed Job Number:	100118
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:	No
Bearing RTDS:	No
Winding RTDS:	No
Mounting Orientation :	Horizontal

Priorities Found: 5 - Good

## **Overall Condition**

0

Describe the Overall Condition of the Equipment as Received

P15 Nameplate Picture 2.























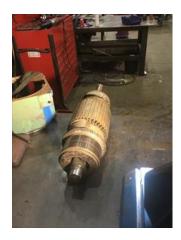


















Distance From the End of the Shaft to the end of the Face of the Sheave/Coupling

		Officave/Oddpiirig	
In	itial I	/lechanical/Electrical	
	4.	Does the Shaft Turn Freely?	(Y) 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	
	11.	Frame Condition	(P) Pass

<b>1</b> 2.	Fan Condition		(NA) Not Applicable	9
13.	Brush Information		(,	
	Brush Number	Quantity	Condition	
	S+E E49X	4	worn	
14.		•	good	
	ing Electrical Test	oropor gap to commutation	9000	
15.	General Condition of the Armatu	re/Commutator	good	
16.	Armature Insulation Resistance		9000	
	Field Circuit Insulation Resistance			
18.	Interpole Circuit Insulation Resis			
19.	Field Drop Test Fields 1&2	nance to Ground		
10.	Total AC Voltage	Field #1	Field #2	
	Total AC Voltage	I ICIU # I	i ieiu #2	
	Read open.			
20.	Field Drop Test Fields 3&4			
_0.	Field #3	Fleld #4		
	1 1010 110	I ISIQ II T		
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	
	· ·	2.9	2.9	
24.	Interpole Drop Test 3&4			
	Interpole #3	Interpole #4		
	2.9	2.9		
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		
Mecha	nical Inspection			o
28.	Shaft Runout Drive End		inche	3
29.	Shaft Runout Armature			
	Drive End Bearing Journal	Armature Core	ODE Bearing Journal	
	0.001		0.001	

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31.	Drive End Bearing Quantity	1	
32.	Drive End Bearing Type	(Roller) Roller Bearing	P47



33.	Drive End Lubrication Type	(Grease) Grease Lubricated	
34.	Drive End Bearing Insulation or Grounding Device?	(NA)	
35.	Drive End Wavy Washer/Snap-Ring Other Retention Device?	none	
36.	Drive End Bearing Condition	grease dirty	
37.	Opposite Drive End Bearing Number	6309/2Z	P86



38.	Opposite Drive End Bearing Quantity	1

39. Opposite Drive End Bearing Type

P95



40.	Opposite Drive End Lubrication Type	(Grease) Grease Lubricated	
41.	Opposite Drive End Bearing Insulation or Grounding Device?	(NA)	
42.	Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?	yes	P109



43. Opposite Drive End Bearing Condition







44. Signature of Technician who Performed Teardown

Terrence. Holland

45.	List Parts Needed Prior to Reass	embly		
	Rewind fields. Polish comm. reco	ndition and replace bearings and brush	es.	
Mecha	nical Fits - Armature			
46.	Coupling Fit Closest to Bearing H	lousing		
	0 Degrees	60 degrees	120 degrees	
47.	Coupling Fit Closest to the End o			
	0 Degrees	60 degrees	120 degrees	
40	D: E ID : 01 (1E)			
48.	Drive End Bearing Shaft Fit	C0 Da 2722	400 Daniera	
	0 Degrees	60 Degrees	120 Degrees	
49.	Drive End Bearing Shaft Fit Cond	lition		
50.	Opposite Drive End Bearing Shafe			
	0 Degrees	60 Degrees	120 Degrees	
		9	·	
51.	Opposite Drive End Bearing Shafe	ft Fit Condition		
52.	Shaft Air Seal Fits			
	Drive End Air Seal	Opposite Drive End Air Seal		
	nical Fits- Bearing Housings			
53.	Drive End - End Bell Bearing Fit			
	0 Degrees	60 Degrees	120 Degrees	
54.	Drive End - Endbell Bearing Fit C	Condition		
55.	Opposite Drive End - End Bell Be			
00.	0 Degrees	60 Degrees	120 Degrees	
		00 _ 09.000		
56.	Opposite Drive End - Endbell Bea	aring Fit Condition		
57.	Bearing Cap Condition			
	Drive End	Opposite Drive End		
58.	End Bell Air Seal Fits			
	Drive End Air Seal	Opposite Drive End Air Seal		
50	List on Mashina work Nasalad D	alanı		
59. 60.	List any Machine work Needed B Signature of Technician Performi			
	nic Balance Report	ng weastrements		
61.	Rotor Weight and Balance Grade	•		
	Rotor Weight	Balance Grade		
	<b>3</b>			
62.	Initial Balance Readings			
	Drive End Readings	Opposite Drive End Readings		
63.	Final Balance Readings			
	Drive End Readings	Opposite Drive End Readings		

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64.	Signature of the Balance Technici	an	
	utator Data	ω	
65.	Total Copper Segment Length		
66.	Number of Bars		
67.	Number of Wires Per Copper Bar	and Size	
07.	Number of Wires per Bar	Wire Size	
	Number of Wifes per Dai	Wile Size	
68.	Equalizers per Copper Bar and Ed	qualizer Wire Size	
	Equalizers per Bar	Wire Size	
69.	Document Commutator Diameter,	Minimum and Max	
	Current Comm Diameter	Minimum Comm Diameter	Maximum Comm Diameter
70.	Commutator Shaft Diameter		
	Front Shaft Diameter	Back Shaft Diameter	
	Tront Ghan Diameter	Dack Grian Diameter	
71.	Commutator Type		
72.	Commutator Bore		
73.	Signature of Technician Recording	g Data	
Post A	rmature Rewind Testing		
74.	Post Rewind Armature Insulation I	Resistance to Ground	
75.	Post Rewind Field Circuit Measure	e the Insulation Resistance to Ground	
76.	Post Rewind Armature Number of	Bars - Bar to Bar Test	
	Number of Bars	Bar to Bar Test	
77.	Post Rewind Field Circuit Insulation	on Resistance to Ground	
78.	Post Rewind Interpole Circuit Insu	lation Resistance to Ground	
79.	Post Rewind Field Drop Test Field		
	Total AC Voltage	Field #1	Field #2
80.	Post Rewind Field Drop Test Field	ls 3&4	
	Field #3	Fleld #4	
81.	Post Rewind Field Drop Test Field	In 596	
01.	Field #5	Fleld #6	
	i iciu #3	Tield #0	
82.	Post Rewind Field Drop Test Field	ls 7&8	
	Field #7	Fleld #8	
83.	Post Rewind Interpole Drop Test 1		
	Total AC Voltage	Interpole #1	Interpole #2
84.	Post Rewind Interpole Drop Test 3	3&4	
J	Interpole #3	Interpole #4	
85.	Post Rewind Interpole Drop Test 5	5&6	
	Interpole #5	Interpole #6	

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86.	Post Rewind Interpole Drop Te	est 7&8	
	Interpole #7	Interpole #8	
Post M	lechanical Repair		
	Post Repair Coupling Fit Close	est to Bearing Housing	
	0 Degrees	60 degrees	120 degrees
	o Degrees	oo degrees	120 degrees
00	Post Banair Coupling Eit Class	act to the End of the Shoft	
88.	Post Repair Coupling Fit Close		400 1
	0 Degrees	60 degrees	120 degrees
		A	
89.	Post Repair Drive End Bearing		
	0 Degrees	60 Degrees	120 Degrees
90.	Post Repair Drive End Bearing	Shaft Fit Condition	
91.	Post Repair Drive End Opposit	te Drive End Bearing Shaft Fit	
	0 Degrees	60 Degrees	120 Degrees
92.	Post Repair Drive End Opposit	te Drive End Bearing Shaft Fit Condition	١
93.	Post Repair Drive End - End B	ell Bearing Fit	
	0 Degrees	60 Degrees	120 Degrees
94.	Post Repair Drive End - Endbe	ell Bearing Fit Condition	
95.	Post Repair Opposite Drive Er	nd - End Bell Bearing Fit	
	0 Degrees	60 Degrees	120 Degrees
		<b>.</b>	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
96.	Post Repair Opposite Drive Er	nd - Endbell Bearing Fit Condition	
97.	Post Repair Bearing Cap Cond		
	Drive End	Opposite Drive End	
	21110 2110		
98	Post Repair End Bell Air Seal	Fits	
00.	Drive End Air Seal	Opposite Drive End Air Seal	
	Dilve Liiu Ali Seai	Opposite Drive Life All Seal	
99.	Signature of Tech Performing	Mechanical Renairs	
Assem		moonamoa Ropano	
	Take Pictures of all Major Com	anonente Prior to Possesambly	
	· · · · · · · · · · · · · · · · · · ·	e the Proper Clearance, and Brushes	
101.	have been Seated Properly	e the Froper Clearance, and Drusnes	
102.	Assembled Shaft End Play and	d Runout	
	Shaft Endplay	Shaft Runout	
	1 -7		
103.	Perform No-Load Test Run. Ro	ecord Armature Voltage and Current	
	Voltage	Current	
	· Jilago	Janone	
104	Perform No-Load Test Run De	ecord Field Voltage and Current	
104.		•	
	Voltage	Current	

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105.	Document Vibration Read	lings Drive End		
	Horizontal	Vertical	Axial	
106.	Document Vibration Read	lings Opposite Drive End		
	Horizontal	Vertical	Axial	
107.	Perform Full-Load Test R	un, Record Armature Voltage and (	Current	
	Voltage	Current		
108.	Perform Full-Load Test R	un, Record Field Voltage and Curre	ent	
	Voltage	Current		
109.		lings Under Full Load Drive End		
	Horizontal	Vertical	Axial	
110.	Document Vibration Read	lings Under Full Load Opposite Dri	ve End	
	Horizontal	Vertical	Axial	
	Ambient Temperature			
112.	Drive End Bearing Temps			
	5 Minutes	10 Minutes	15 Minutes	
113.	Opposite Drive End Beari	ng Temps Under Full Load		
	5 Minutes	10 Minutes	15 Minutes	
			1.01	
114.	Final Test Run Sign-Off			
115.	Document Final Condition	With Pictures		
116.	Final QC Sign-Off			