

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

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AC Inspection as Found

Georges Inc

1810 S. St. Louis Street Batesville, AR 72501

AC Inspection - Rev. 2

Location: Shop Serial Number: 109190 B

Description: 3KW DERTEC 1800RPM 100L STAINLESS STEAL WITH GEARBOX

Hi-Speed Job Number:	102091
Manufacturer:	Other
Product Number:	FP22SS 100L2-4 B14A
Serial Number:	109190 B
HP/kW:	3 (kW)
RPM:	1750 (RPM)
Frame:	100L
Voltage:	230 / 460
Current:	9.03/5.2
Phase:	Three
Hz:	60 (Hz)
Service Factor:	1.23
Enclosure:	TEFC
J-box Included:	Complete
Coupling/Sheave:	Gear
Bearing RTDs:	No
Stator RTDs:	No
Heaters:	No
Winding Type :	Random Wound
Bearing Type:	Rolling Element

Priorities Found: 1 - High



6 - Good

Overall Condition

Report Date 1.

Nameplate Picture P37





3. Photos of all six sides of the machine. P45

































 Describe the Overall Condition of the Equipment as Received Serviceable

5. Distance from the end of the shaft to the Coupling/Sheave

inches

Initial Mechanical/Electrical

6. Does Shaft Turn Freely?

(Yes) Yes

7. Does Shaft Have Visible Damage?

(No) No P20

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- 8. Assembled Shaft Runout
- 9. Assembled Shaft End Play
- 10. Air Gap Variation <10%
- 11. Lead Condition

(P) Pass

12. Lead Length

Lead Numbers W1-W6 13. Frame Condition 14. pass (P) Pass P96

Fan Condition 15.



Broken or Missing Components

fan cover

P100



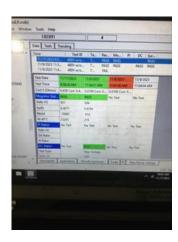
Initial Electrical Inspection

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18. Winding Resistance

1-2 1-3 2-3

19. Perform Surge Test P57



20. Number of Stator Slots	36
21. Stator Condition	pass
22. Stator Thermistors/Ohms	
23. Stator Overloads/Ohms	.2
Mechanical Inspection	Ō





25. Drive End Bearing Number-

6306 2RS

P30



26.	Drive End Bearing Qty.	1	
27.	Drive End Bearing Type	(Ball) Ball Bearing	
28.	Drive End Lubrication Type	(Grease) Grease Lubricated	
29.	Drive End Bearing Insulation or Grounding Device?	none	
30.	Drive End Wavy Washer/Snap-Ring Other Retention Device?	none	
31.	Drive End Bearing Condition	replace	
32.	Opposite Drive End Bearing Brand		P87



33. Opposite Drive End Bearing Number-

6306 2RS

P90



34.	Opposite Drive End Bearing Qty.	1	
35.	Opposite Drive End Bearing Type	(Ball) Ball Bearing	
36.	Opposite Drive End Lubrication Type	(Grease) Grease Lubricated	
37.	Opposite Drive End Bearing Insulation or Grounding Device?	none	
38.	Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?	wavy washer	P99



39. Opposite Drive End Bearing Condition replace
40. Drive End Seal
30*47*7 P102



41. Opposite Drive End Seal 30*47*7

Rotor Inspection



Mechanical Fits- Rotor

Drive End Air Seal

43.	Growler Test	(Pass) Pass
44.	Number of Rotor Bars	31
45.	Rotor Condition	pass
46.	List the Parts needed for the Repair Below	
	(2) 6306 2RS bearings.	
47.	Signature of Technician that Disassembled Motor	Terrence Holland

IVIC	Ciia	ilicai i its- Notoi		
	48.	Shaft Runout		0.001 inches
	49.	Rotor Runout		
		Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing
	50.	Coupling Fit Closest to Bearing H	ousing	
		0 Degrees	90 Degrees	120 Degrees
	51.	Coupling Fit Closest to the end of	the Shaft	
		0 Degrees	60 Degrees	120 Degrees
	52.	Drive End Bearing Shaft Fit		
		0 Degrees	60 Degrees	120 Degrees
		1.1816	1.1817	1.1817
	53.	Drive End Bearing Shaft Fit Cond	ition	(P) Pass
	54.	Opposite Drive End Bearing Shaf	t Fit	
		0 Degrees	60 Degrees	120 Degrees
		1.1816	1.1815	1.1815
	55.	Opposite Drive End Bearing Shaf	t Fit Condition	(P) Pass
	56.	Shaft Air Seal Fits		

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Opposite Drive End Air Seal

	han	ical Fits- Bearing Housings		
		Drive End - Endbell Bearing Fit		
3.		0 Degrees	60 Degrees	120 Degrees
		2.8351	2.8352	2.8351
58		Drive End - Endbell Bearing Fit Co		(P) Pass
		Opposite Drive End - Endbell Bear		(r) r ass
3:		0 Degrees	60 Degrees	120 Degrees
		2.8356	2.8357	2.8356
• 60		Opposite Drive End - Endbell Bear		(F) Fail
_		Bearing Cap Condition	ing Fit Condition	(r) raii
O			Opposite Drive End Booring Con	
		Drive End Bearing Cap	Opposite Drive End Bearing Cap	
0/		na	na	
62		End Bell Air Seal Fits		
		Drive End Air Seal	Opposite Drive End Air Seal	
63	3.	List Machine Work Needed Below		
		ODE housing.		
64	4.	Technician		Terrence Holland
		4	- 11	
Dyna	ami	c Balance Report		
-		c Balance Report Rotor Weight and Balance Grade		
-	5.	·	Balance Grade	
-	5.	Rotor Weight and Balance Grade	Balance Grade	
68	5. 6.	Rotor Weight and Balance Grade Rotor Weight	Balance Grade Opposite Drive End	
66	5.6.	Rotor Weight and Balance Grade Rotor Weight Initial Balance Readings		
66	 6. 7. 	Rotor Weight and Balance Grade Rotor Weight Initial Balance Readings Drive End		
66	 6. 7. 	Rotor Weight and Balance Grade Rotor Weight Initial Balance Readings Drive End Final Balance Readings Drive End	Opposite Drive End	
66	 6. 7. 	Rotor Weight and Balance Grade Rotor Weight Initial Balance Readings Drive End Final Balance Readings Drive End Technician	Opposite Drive End	
66 67 68 Rew	5. 6. 7. 8.	Rotor Weight and Balance Grade Rotor Weight Initial Balance Readings Drive End Final Balance Readings Drive End Technician	Opposite Drive End Opposite Drive End	
66 67 68 Rew	5. 6. 7. 8. rind 9.	Rotor Weight and Balance Grade Rotor Weight Initial Balance Readings Drive End Final Balance Readings Drive End Technician Core Test Results - Watts loss per	Opposite Drive End Opposite Drive End	
66 67 68 Rew	5. 6. 7. 8. rind 9.	Rotor Weight and Balance Grade Rotor Weight Initial Balance Readings Drive End Final Balance Readings Drive End Technician	Opposite Drive End Opposite Drive End	
66 67 68 Rew	5. 6. 7. 8. rind 9.	Rotor Weight and Balance Grade Rotor Weight Initial Balance Readings Drive End Final Balance Readings Drive End Technician Core Test Results - Watts loss per Pre-Burnout Core Hot Spot Test	Opposite Drive End Opposite Drive End Pound Post Burnout	
66 67 68 Rew	5. 6. 7. 8. rind 9.	Rotor Weight and Balance Grade Rotor Weight Initial Balance Readings Drive End Final Balance Readings Drive End Technician Core Test Results - Watts loss per Pre-Burnout	Opposite Drive End Opposite Drive End	
68 68 Rew 69	5. 6. 7. 8. rind 9.	Rotor Weight and Balance Grade Rotor Weight Initial Balance Readings Drive End Final Balance Readings Drive End Technician Core Test Results - Watts loss per Pre-Burnout Core Hot Spot Test	Opposite Drive End Opposite Drive End Pound Post Burnout Post-Burnout	
68 68 Rew 69	5. 6. 7. 8. vind 9.	Rotor Weight and Balance Grade Rotor Weight Initial Balance Readings Drive End Final Balance Readings Drive End Technician Core Test Results - Watts loss per Pre-Burnout Core Hot Spot Test Pre-Burnout	Opposite Drive End Opposite Drive End Pound Post Burnout Post-Burnout	
68 66 68 Rew	5. 6. 7. 8. rind 9.	Rotor Weight and Balance Grade Rotor Weight Initial Balance Readings Drive End Final Balance Readings Drive End Technician Core Test Results - Watts loss per Pre-Burnout Core Hot Spot Test Pre-Burnout Post Rewind Electrical Test- Insula	Opposite Drive End Opposite Drive End Pound Post Burnout Post-Burnout	
68 66 Rew 69	5. 6. 7. 8. vind 9. 0.	Rotor Weight and Balance Grade Rotor Weight Initial Balance Readings Drive End Final Balance Readings Drive End Technician Core Test Results - Watts loss per Pre-Burnout Core Hot Spot Test Pre-Burnout Post Rewind Electrical Test- Insula Post Rewind Polarization Index	Opposite Drive End Opposite Drive End Pound Post Burnout Post-Burnout	2-3
68 68 Rew 69	5. 6. 7. 8. rind 9. 0.	Rotor Weight and Balance Grade Rotor Weight Initial Balance Readings Drive End Final Balance Readings Drive End Technician Core Test Results - Watts loss per Pre-Burnout Core Hot Spot Test Pre-Burnout Post Rewind Electrical Test- Insula Post Rewind Polarization Index Post Rewind Winding Resistance	Opposite Drive End Opposite Drive End Pound Post Burnout Post-Burnout ation Resistance	2-3

7.5	Doot Dowind Hi Dot		
75.	Post Rewind Hi-Pot		
76.	Technician		
	ause of Failure		
77.			
	Root cause of failure		
	nical Fits- Rotor - Post Repair		
	Shaft Runout Post Repair		
80.	Rotor Runout Post Repair		
	Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing
81.	Coupling Fit Closest to Bearing H	ousing Post Repair	
	0 Degrees	90 Degrees	120 Degrees
00	Counting Fit Classest to the and of	the Chaft Deat Denair	
82.	Coupling Fit Closest to the end of	·	400 D
	0 Degrees	60 Degrees	120 Degrees
83.	Drive End Bearing Shaft Fit Post	Repair	
	0 Degrees	60 Degrees	120 Degrees
84.	Opposite Drive End Bearing Shaf	t Fit Post Repair	
	0 Degrees	60 Degrees	120 Degrees
85.	Shaft Air Seal Fits Post Repair		
	Drive End Air Seal	Opposite Drive End Air Seal	
	2.000 2.000 0.000	opposite data data in desir	
86.	Shaft Repair Sign-off		
Mecha	nical Fits- Bearing Housings	- Post Repair	
87.		•	
	0 Degrees	60 Degrees	120 Degrees
			3
88.	Opposite Drive End - Endbell Bea	ring Fit Post Repair	
	0 Degrees	60 Degrees	120 Degrees
		20 _ 03.000	0 _ 09.000
89.	Bearing Cap Condition Post Repa	air	
	Drive End Bearing Cap	Opposite Drive End Bearing Cap	
	zwe zwa zeamig eap	opposite zine zine zoemig oap	
90.	End Bell Air Seal Fits Post Repair		
	Drive End Air Seal	Opposite Drive End Air Seal	
91.	End Bell Repair Sign-off		
Assem	•		
92.	QC Check All Parts for Cleanlines	•	
93.	Photograph All Major Component	s prior to assembly	
94.	Final Insulation Resistance Test		
95.	Assembled Shaft Endplay		
96.	Assembled Shaft Runout		

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97.	Test Run Voltage		
	Volts	Volts	Volts
98.	Test Run Amperage		
	Amps	Amps	Amps
99.	Drive End Vibration Readings - In	ches Per Second	
	Horizontal	Vertical	Axial
100.	Opposite Drive End Vibration Rea	adings - Inches Per Second	
	Horizontal	Vertical	Axial
101.	Ambient Temperature - Fahrenhe	it	
102.	Drive End Bearing Temps - Fahre	enheit	
	5 Minutes	10 Minutes	15 Minutes
103.	Opposite Drive End Bearing Temp	ps - Fahrenheit	
	5 Minutes	10 Minutes	15 Minutes
104.	Document Final Condition with Pi	ctures after paint	
105.	Final Pics and QC Review		

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