

## **AC Recondition As Found**

Georges Inc 1810 S. St. Louis Street Batesville, AR 72501

Location:	Shop
Serial Number:	1MAF34079-013 NP

**Description:**40HP AQUA JET AERATOR 1200RPM 364LPZ FolderID: 100836 FormID: 15814466

Hi-Speed Job Number:	100836
Manufacturer:	Reliance
Product Number:	2404001
Serial Number:	1MAF34079-013 NP
HP/kW:	40 (HP)
RPM:	1185 (RPM)
Frame:	364LPZ
Voltage:	460
Current:	47.7
Phase:	Three
Hz:	60 (Hz)
Service Factor:	1.15
Enclosure:	TEFC
J-box Included:	Complete
Coupling/Sheave:	Propeller
Bearing RTDs:	No
Stator RTDs:	No
Repair Stage:	Final
Heaters:	No
Winding Type :	Random Wound
Bearing Type:	Rolling Element

## Priorities Found: 🔵 1 - High

ligh 🛛 🕘 8 - Good

- Overall Condition
  - 1. Report Date
    - 2. Nameplate Picture



3. Photos of all six sides of the machine.

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P37

























































- 4. Describe the Overall Condition of the Equipment as Received *Dirty/serviceable.*
- 5. Distance from the end of the shaft to the Coupling/Sheave

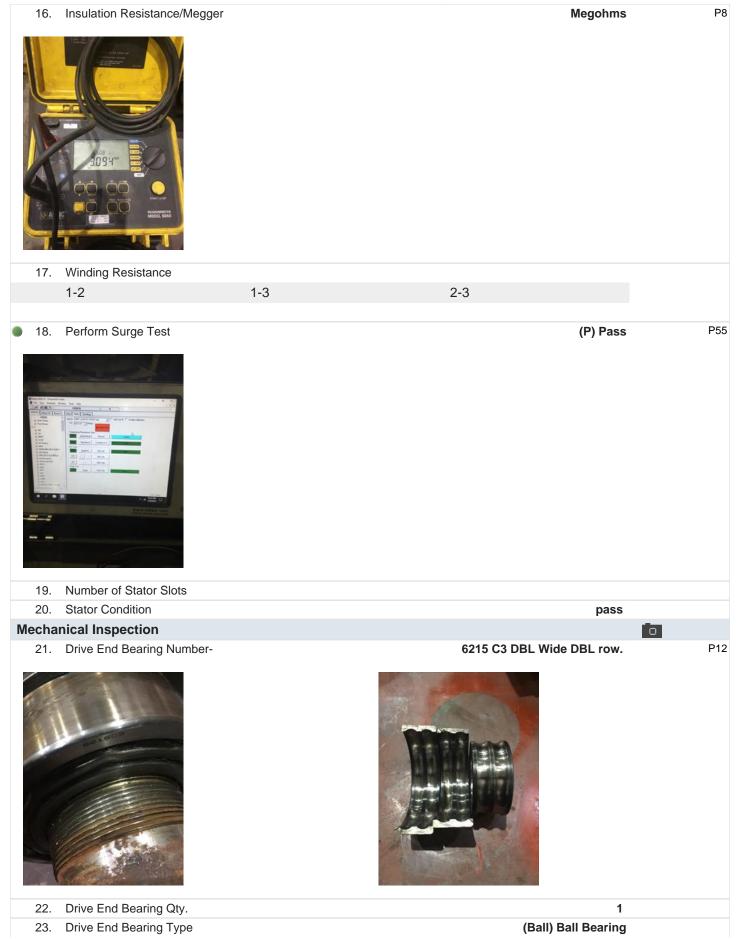
## Initial Mechanical/Electrical

6. Does Shaft Turn Freely?



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7.	Does Shaft Have Visible Damage?	(No) No	P20
• 8.	Assembled Shaft Runout	0.005 Inches	
9.	Assembled Shaft End Play		
10.			
• 11.	Lead Condition	(P) Pass	P53
12	Load Leasth	0 Inchos	
12.		9 Inches	
13.		pass (P) Pass	P90
15.	Broken or Missing Components	none	
Initial	Electrical Inspection	Ō	



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?	none	
27.	Drive End Bearing Condition	replace	P71
28.	Opposite Drive End Bearing Number-	6313 C3	P82
29.	Opposite Drive End Bearing Qty.	1	
30.	Opposite Drive End Bearing Type	(Ball) Ball Bearing	
31.	Opposite Drive End Lubrication Type	(Grease) Grease Lubricated	
51.			
32.	Opposite Drive End Bearing Insulation or Grounding Device?	none	



34.	Opposite Drive End Bearing Cond	dition		replace	
35.	Drive End Seal				
36.	Opposite Drive End Seal				
Rotor	Inspection				0
37.	•		(Squirrel Alt Cage A	uminum) Squirrel Iuminum Die Cast	P3
38.	Growler Test			(Pass) Pass	
39.	Number of Rotor Bars				
40.	Rotor Condition			pass	
41.	List the Parts needed for the Rep	air Below		•	
42.	Signature of Technician that Disa		1	Terrence Holland	
Mecha	nical Fits- Rotor	1	1		
43.	Shaft Runout			0.005 inches	
44.	Rotor Runout				
	Drive End Bearing Fit	Rotor Body	Opposite Driv	ve End Bearing	

	45.	Coupling Fit Closest to Bearing H			
		0 Degrees	90 Degrees	120 Degrees	
	46.	Coupling Fit Closest to the end of			
		0 Degrees	60 Degrees	120 Degrees	
	47.	Drive End Bearing Shaft Fit			
		0 Degrees	60 Degrees	120 Degrees	
		2.9533	2.9534	2.9533	
		Drive End Bearing Shaft Fit Cond		(1	P) Pass
	49.	Opposite Drive End Bearing Shaf	t Fit		
		0 Degrees	60 Degrees	120 Degrees	
		2.5593	2.5593	2.5594	
	50.	Opposite Drive End Bearing Shaf	t Fit Condition	(1	P) Pass
	51.	Shaft Air Seal Fits			
		Drive End Air Seal	Opposite Drive End Air Seal		
M	echai	nical Fits- Bearing Housings			0
	52.	Drive End - Endbell Bearing Fit			
		0 Degrees	60 Degrees	120 Degrees	
		5.1187	5.1188	5.1188	
	53.	Drive End - Endbell Bearing Fit C	ondition	(1	P) Pass
	54.	Opposite Drive End - Endbell Bea			-
		0 Degrees	60 Degrees	120 Degrees	
		5.5123	5.5123	5.5125	
	55.	Opposite Drive End - Endbell Bea	ring Fit Condition		P) Pass
_	56.	Bearing Cap Condition	5	· · · · ·	, P51
		Drive End Bearing Cap	Opposite Drive End Bearing Cap		
			pass		
			P		
		The second second		A Street	
			10 m		
			Usla		
	16				
	1		100	1 AM	
	-	•		2	
				Charles -	
	99 - C				
	57.	End Bell Air Seal Fits			
		Drive End Air Seal	Opposite Drive End Air Seal		
	58.				
	00.	List Machine Work Needed Below	1		
	00.	List Machine Work Needed Below None	1		

59.	Technician		Terrence Holland	
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	d	5// _ /		
/	07	- up		
Dynam	nic Balance Report			
60.	Rotor Weight and Balance Grade			
	Rotor Weight	Balance Grade		
61.	Initial Balance Readings			
	Drive End	Opposite Drive End		
62.	Final Balance Readings			
	Drive End	Opposite Drive End		
63.	Technician			
Rewine				
64.	Core Test Results - Watts loss pe			
	Pre-Burnout	Post Burnout		
65.	Core Hot Spot Test			
	Pre-Burnout	Post-Burnout		
66.	Post Rewind Electrical Test- Insul	ation Resistance		
67.	Post Rewind Polarization Index			
68.	Post Rewind Winding Resistance			
	1-2	1-3	2-3	
69.	Post Rewind Surge Test			
70.	Post Rewind Hi-Pot			
71.				
Root C	Cause of Failure			
72.				
73.	Root cause of failure			
	nical Fits- Rotor - Post Repair	•		
74.	Shaft Runout Post Repair			
75.	Rotor Runout Post Repair			
	Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing	
76.	Coupling Fit Closest to Bearing H	ousing Post Popair		
70.			120 Degrees	
	0 Degrees	90 Degrees	120 Degrees	
77.	Coupling Fit Closest to the end of	the Shaft Post Repair		
	0 Degrees	60 Degrees	120 Degrees	
	0 Degrees	ou Degrees	120 Dogioco	

78.				
, 0.	Drive End Bearing Shaft Fit Post	Repair		
	0 Degrees	60 Degrees	120 Degrees	
79.	Opposite Drive End Bearing Shat	it Fit Post Repair		
	0 Degrees	60 Degrees	120 Degrees	
	5	5	5	
80.	Shaft Air Seal Fits Post Repair			
	Drive End Air Seal	Opposite Drive End Air Seal		
		opposite Dive End / in Ocdi		
81.	Shaft Repair Sign-off			
		Deet Deneir		
	nical Fits- Bearing Housings			
82.	Drive End - Endbell Bearing Fit P	•		
	0 Degrees	60 Degrees	120 Degrees	
83.		aring Fit Post Repair		
	0 Degrees	60 Degrees	120 Degrees	
84.	Bearing Cap Condition Post Repa	air		
	Drive End Bearing Cap	Opposite Drive End Bearing Cap		
85.	End Bell Air Seal Fits Post Repai	r		
	Drive End Air Seal	Opposite Drive End Air Seal		
86.	End Bell Repair Sign-off			
Assem				
87.	Photograph All Major Componen	ts prior to assembly		
88.	Final Insulation Resistance Test			
	Assembled Shaft Endplay			
03.				
00				
90.	Assembled Shaft Runout			
	Assembled Shaft Runout Test Run Voltage		N. I.	
	Assembled Shaft Runout	Volts	Volts	
91.	Assembled Shaft Runout Test Run Voltage Volts	Volts	Volts	
	Assembled Shaft Runout Test Run Voltage Volts Test Run Amperage			
91.	Assembled Shaft Runout Test Run Voltage Volts	Volts Amps	Volts Amps	
91.	Assembled Shaft Runout Test Run Voltage Volts Test Run Amperage Amps	Amps		
91.	Assembled Shaft Runout Test Run Voltage Volts Test Run Amperage Amps Drive End Vibration Readings - Ir	Amps nches Per Second	Amps	
91.	Assembled Shaft Runout Test Run Voltage Volts Test Run Amperage Amps	Amps		
91.	Assembled Shaft Runout Test Run Voltage Volts Test Run Amperage Amps Drive End Vibration Readings - Ir	Amps nches Per Second	Amps	
91.	Assembled Shaft Runout Test Run Voltage Volts Test Run Amperage Amps Drive End Vibration Readings - Ir	Amps nches Per Second Vertical	Amps	
91. 92. 93.	Assembled Shaft Runout Test Run Voltage Volts Test Run Amperage Amps Drive End Vibration Readings - In Horizontal	Amps nches Per Second Vertical	Amps	
91. 92. 93.	Assembled Shaft Runout Test Run Voltage Volts Test Run Amperage Amps Drive End Vibration Readings - In Horizontal	Amps Inches Per Second Vertical adings - Inches Per Second	Amps Axial	
91. 92. 93.	Assembled Shaft Runout Test Run Voltage Volts Test Run Amperage Amps Drive End Vibration Readings - Ir Horizontal Opposite Drive End Vibration Readings	Amps Inches Per Second Vertical adings - Inches Per Second Vertical	Amps Axial	
91. 92. 93. 94. 95.	Assembled Shaft Runout Test Run Voltage Volts Test Run Amperage Amps Drive End Vibration Readings - In Horizontal Opposite Drive End Vibration Read Horizontal Ambient Temperature - Fahrenhe	Amps Inches Per Second Vertical adings - Inches Per Second Vertical	Amps Axial	
91. 92. 93. 94.	Assembled Shaft Runout Test Run Voltage Volts Test Run Amperage Amps Drive End Vibration Readings - Ir Horizontal Opposite Drive End Vibration Readings	Amps Inches Per Second Vertical adings - Inches Per Second Vertical	Amps Axial	

97.	Opposite Drive End Be	earing Temps - Fahrenheit		
	5 Minutes	10 Minutes	15 Minutes	
98.	Final Test Run Sign-of	f		
99.	Document Final Cond	tion with Pictures after paint		
100.	Final Pics and QC Rev	view		