

FolderID: 100145 FormID: 14273177

## AC Recondition - Rev. 2

Location:	MOTOR SHOP LR
Serial Number:	F0805142096

Description: 1.5HP RELIANCE 1800RPM D90

Hi-Speed Job Number:	100145
Manufacturer:	Reliance
Product Number:	P90H2205
Spec/ID #:	35W424W206G1
Serial Number:	F0805142096
HP/kW:	1.5 (HP)
RPM:	1725 (RPM)
Frame:	D90
Voltage:	230 / 460
Current:	5/2.5
Phase:	Three
Hz:	60 (Hz)
Service Factor:	1.15
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: 🛑 1 - High

- igh 🛛 🌑 3 Good
- **Overall Condition**
- 1. Report Date
  - 2. Nameplate Picture





Hi-Speed Industrial Service disclaims all warranties, both express and implied, relating to the information, reports, opinions and analysis disclosed to the Customer by Hi-Speed. Hi-Speed shall not be liable for any errors or omissions, or any losses, injury or damages arising from the use of such information, reports, opinions and analysis by the Customer.

P21

Ο







































3	3.	Photos of all six sides of the mach	nine.			
4	4.	Describe the Overall Condition of	the Equipment as Received			
		Good				
Initia	al N	lechanical/Electrical				
• 5	5.	Does Shaft Turn Freely?			(Yes) Yes	
6	6.	Does Shaft Have Visible Damage	?		(No) No	
7	7.	Assembled Shaft Runout				
8	8.	Assembled Shaft End Play				
9	9.	Air Gap Variation <10%				
• 1	0.	Lead Condition			(P) Pass	
1	1.	Lead Length			8 Inches	
1	2.	Frame Condition			good	
1	3.	Fan Condition			(P) Pass	
1	4.	Broken or Missing Components				
Initia	al E	Electrical Inspection				
1	5.	Insulation Resistance/Megger				
1	6.	Winding Resistance				
		1-2	1-3	2-3		
1	7.	Perform Surge Test			(F) Fail	
1	8.	Stator Condition				
Mec	hai	nical Inspection				0
1	9.	Drive End Bearing Number-			6207	
2	20.	Drive End Bearing Qty.			1	

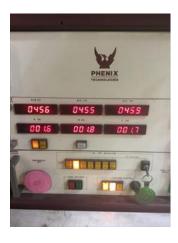
P20

22.	Drive End Lubrication Type				
23.	Drive End Bearing Insulation or	Grounding Device?			
24.	Drive End Wavy Washer/Snap-	Ring Other Retention Device?			
25.	Drive End Bearing Condition				
26.	Opposite Drive End Bearing Nu	mber-			
27.	Opposite Drive End Bearing Qty	/.			
28.	Opposite Drive End Bearing Type				
29.	Opposite Drive End Lubrication	••			
30.	Opposite Drive End Bearing Ins				
31.		ner/Snap-Ring Other Retention Dev	vice?		
32.	Opposite Drive End Bearing Condition				
33.	Drive End Seal				
34.	Opposite Drive End Seal				
	Inspection				
35.	Rotor Type/Material				
36.	Growler Test				
37.	Number of Rotor Bars				
38.	Rotor Condition				
39.	List the Parts needed for the Re	•			
40.	С С				
	anical Fits- Rotor				
41.	Shaft Runout				
42.	Rotor Runout				
	Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing		
43.	Coupling Fit Closest to Bearing	Housing			
	0 Degrees	90 Degrees	120 Degrees		
44.	Coupling Fit Closest to the end of the Shaft				
	0 Degrees	60 Degrees	120 Degrees		
45.	Drive End Bearing Shaft Fit				
	0 Degrees	60 Degrees	120 Degrees		

46.	Drive End Bearing Shaft Fit Condition				
47.	Opposite Drive End Bearing Shaft Fit				
	0 Degrees	60 Degrees	120 Degrees		
48.	Opposite Drive End Bearing Shaft	Fit Condition			
49.	Shaft Air Seal Fits				
	Drive End Air Seal	Opposite Drive End Air Seal			
Mecha	nical Fits- Bearing Housings				
50.	Drive End - Endbell Bearing Fit				
	0 Degrees	60 Degrees	120 Degrees		
51.	Drive End - Endbell Bearing Fit Co	ondition			
52.	Opposite Drive End - Endbell Bea	ring Fit			
	0 Degrees	60 Degrees	120 Degrees		
53.	Opposite Drive End - Endbell Bea	ring Fit Condition			
54.	Bearing Cap Condition				
	Drive End Bearing Cap	Opposite Drive End Bearing Cap			
55.	End Bell Air Seal Fits				
	Drive End Air Seal	Opposite Drive End Air Seal			
56.	List Machine Work Needed Below				
57.	Technician				
Dynam	nic Balance Report				
58.	Rotor Weight and Balance Grade				
	Rotor Weight	Balance Grade			
59.	Initial Balance Readings				
	Drive End	Opposite Drive End			
60.	Final Balance Readings				
	Drive End	Opposite Drive End			
61.	Technician				
Rewine					
62.	· · · · · · · · · · · · · · · · · · ·				
	Pre-Burnout	Post Burnout			
63.	Core Hot Spot Test				
	Pre-Burnout	Post-Burnout			
64.	Post Rewind Electrical Test- Insul Post Rewind Polarization Index	ation Resistance			

66.	Post Rewind Winding Resistance	9		
	1-2	1-3	2-3	
67.	Post Rewind Surge Test			
68.	Post Rewind Hi-Pot			
69.	Technician			
Root C	Cause of Failure			
70.	Failure locations			
71.	Root cause of failure			
Mecha	inical Fits- Rotor - Post Repai	r		
72.	Shaft Runout Post Repair			
73.	Rotor Runout Post Repair			
	Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing	
74.	Coupling Fit Closest to Bearing Housing Post Repair			
	0 Degrees	90 Degrees	120 Degrees	
75.	Coupling Fit Closest to the end o	f the Shaft Post Repair		
	0 Degrees	60 Degrees	120 Degrees	
76.	Drive End Bearing Shaft Fit Post	Repair		
	0 Degrees	60 Degrees	120 Degrees	
77.	Opposite Drive End Bearing Sha	ft Fit Post Repair		
	0 Degrees	60 Degrees	120 Degrees	
78.				
	Drive End Air Seal	Opposite Drive End Air Seal		
79.	1 0			_
	inical Fits- Bearing Housings	· · · · · · · · · · · · · · · · · · ·		0
80.	Drive End - Endbell Bearing Fit F	•		
	0 Degrees	60 Degrees	120 Degrees	

81.	Opposite Drive End - Endbell Bea	aring Fit Post Repair		P100
	0 Degrees	60 Degrees	120 Degrees	
	1.5751	1.5752	1.5751	
1	CITES D			
1				
1				
0				
112				
A				
0				
00	Bearing Cap Condition Post Repa	hir .		
82.	• • •			
	Drive End Bearing Cap	Opposite Drive End Bearing Cap		
83.	End Bell Air Seal Fits Post Repai	r		
00.	Drive End Air Seal	Opposite Drive End Air Seal		
	Drive End Air Ocar	opposite Drive End Air Ocar		
84.	End Bell Repair Sign-off			
Assem				o
85.	Photograph All Major Component	s prior to assembly		-
86.	Final Insulation Resistance Test			
87.				
88.	Assembled Shaft Runout			
89.				
09.	Test Run Voltage	N / - 1( -	N / - 1/ -	
	Volts	Volts	Volts	
00	Test Run Amperage			
90.		A	A	
	Amps	Amps	Amps	
~ ~ ~				
91.	Drive End Vibration Readings - In			
	Horizontal	Vertical	Axial	
00		diana Inches Der Occ.		
92.	Opposite Drive End Vibration Rea	•		
	Horizontal	Vertical	Axial	
00	Ambient Tomperature - Fabrack	:4		
93.	Ambient Temperature - Fahrenhe			
94.	Drive End Bearing Temps - Fahre			
	5 Minutes	10 Minutes	15 Minutes	
05	Opposite Drive End Destring Tage	na Fahranhait		
95.	Opposite Drive End Bearing Tem			
	5 Minutes	10 Minutes	15 Minutes	
96.	Final Test Run Sign-off			







98. Final Pics and QC Review





