



AC Recondition As Found

SLOAN VALVE (11763)

2719 Business Hwy 33

Augusta, Arkansas

FolderID: 101125
FormID: 16279364

AC Recondition - Rev. 2

Location: MOTOR SHOP LR

Serial Number: Z1302140327

Description: 15HP BALDOR 3600RPM 254TCZ

Hi-Speed Job Number: 101125

Manufacturer: Baldor

Product Number: 39L051W816G1

Spec/ID #: 39L051W816G1

Serial Number: Z1302140327

HP/kW: 15 (HP)

RPM: 3525 (RPM)

Frame: 254TCZ

Voltage: 230 / 460

Current: 37/18.5

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: ● 4 - High ● 5 - Good

Overall Condition



- Report Date
- Nameplate Picture

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- Photos of all six sides of the machine.

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


Initial Mechanical/Electrical

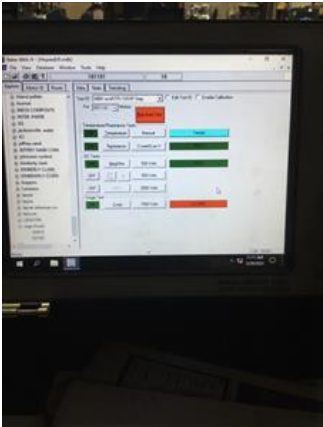


- | | |
|------------------------------------|--------------|
| 6. Does Shaft Turn Freely? | (Yes) Yes |
| 7. Does Shaft Have Visible Damage? | (No) No |
| 8. Assembled Shaft Runout | 0.002 Inches |
| 9. Assembled Shaft End Play | |
| 10. Air Gap Variation <10% | |

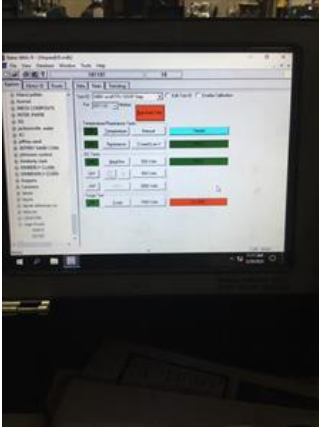
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12. Lead Length	14 Inches
13. Frame Condition	pass
14. Fan Condition	(P) Pass
15. Broken or Missing Components	
Initial Electrical Inspection 	
16. Insulation Resistance/Megger	Megohms
17. Winding Resistance	
1-2	1-3 2-3



19. Number of Stator Slots	
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Mechanical Inspection



21. Drive End Bearing Brand

FAG

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22. Drive End Bearing Number-	6309
23. Drive End Bearing Qty.	1
24. Drive End Bearing Type	(Ball) Ball Bearing
25. Drive End Lubrication Type	(Grease) Grease Lubricated
26. Drive End Bearing Insulation or Grounding Device?	none
27. Drive End Wavy Washer/Snap-Ring Other Retention Device?	snap ring
28. Drive End Bearing Condition	replace
29. Opposite Drive End Bearing Brand	FAG
30. Opposite Drive End Bearing Number-	6208
31. Opposite Drive End Bearing Qty.	1
32. Opposite Drive End Bearing Type	(Ball) Ball Bearing
33. Opposite Drive End Lubrication Type	(Grease) Grease Lubricated
34. Opposite Drive End Bearing Insulation or Grounding Device?	none
35. Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?	wavy washer
36. Opposite Drive End Bearing Condition	replace
37. Drive End Seal	
38. Opposite Drive End Seal	none

Rotor Inspection





40. Growler Test (Pass) Pass
41. Number of Rotor Bars
42. Rotor Condition pass
43. List the Parts needed for the Repair Below
Re-sleeve both housing fits. Replace pump seal and make new seal sleeve. Rewind stator.
44. Signature of Technician that Disassembled Motor Terrence Holland

Mechanical Fits- Rotor

45. Shaft Runout 0.002 inches

46. Rotor Runout

Drive End Bearing Fit

Rotor Body

Opposite Drive End Bearing

47. Coupling Fit Closest to Bearing Housing

0 Degrees

90 Degrees

120 Degrees

48. Coupling Fit Closest to the end of the Shaft

0 Degrees

60 Degrees

120 Degrees

49. Drive End Bearing Shaft Fit

0 Degrees

60 Degrees

120 Degrees

1.7718

1.7718

1.7718

50. Drive End Bearing Shaft Fit Condition (P) Pass

51. Opposite Drive End Bearing Shaft Fit

0 Degrees

60 Degrees

120 Degrees

1.5748

1.5747

1.5747

52. Opposite Drive End Bearing Shaft Fit Condition (P) Pass

53. Shaft Air Seal Fits

Drive End Air Seal

Opposite Drive End Air Seal

Mechanical Fits- Bearing Housings



54. Drive End - Endbell Bearing Fit

0 Degrees

60 Degrees

120 Degrees



Bad. Excessive wear.

55. Drive End - Endbell Bearing Fit Condition

(F) Fail

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56. Opposite Drive End - Endbell Bearing Fit

0 Degrees

60 Degrees

120 Degrees



Bad excessive wear.

57. Opposite Drive End - Endbell Bearing Fit Condition

(F) Fail

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58. Bearing Cap Condition

Drive End Bearing Cap

Opposite Drive End Bearing Cap

pass



59. End Bell Air Seal Fits

Drive End Air Seal

Opposite Drive End Air Seal

60. List Machine Work Needed Below

Re-sleeve both housing fits. Machine new seal sleeve.

61. Technician

Terrence Holland

Dynamic Balance Report

62. Rotor Weight and Balance Grade

Rotor Weight

Balance Grade

63. Initial Balance Readings

Drive End

Opposite Drive End

64. Final Balance Readings

Drive End

Opposite Drive End

65. Technician

Rewind

66. Core Test Results - Watts loss per Pound

Pre-Burnout

Post Burnout

67. Core Hot Spot Test

Pre-Burnout

Post-Burnout

68. Post Rewind Electrical Test- Insulation Resistance

69. Post Rewind Polarization Index

70.	Post Rewind Winding Resistance		
	1-2	1-3	2-3
71.	Post Rewind Surge Test		
72.	Post Rewind Hi-Pot		
73.	Technician		
Root Cause of Failure			
74.	Failure locations		
75.	Root cause of failure		
Mechanical Fits- Rotor - Post Repair			
76.	Shaft Runout Post Repair		
77.	Rotor Runout Post Repair		
	Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing
78.	Coupling Fit Closest to Bearing Housing Post Repair		
	0 Degrees	90 Degrees	120 Degrees
79.	Coupling Fit Closest to the end of the Shaft Post Repair		
	0 Degrees	60 Degrees	120 Degrees
80.	Drive End Bearing Shaft Fit Post Repair		
	0 Degrees	60 Degrees	120 Degrees
81.	Opposite Drive End Bearing Shaft Fit Post Repair		
	0 Degrees	60 Degrees	120 Degrees
82.	Shaft Air Seal Fits Post Repair		
	Drive End Air Seal	Opposite Drive End Air Seal	
83.	Shaft Repair Sign-off		
Mechanical Fits- Bearing Housings - Post Repair			
84.	Drive End - Endbell Bearing Fit Post Repair		
	0 Degrees	60 Degrees	120 Degrees
85.	Opposite Drive End - Endbell Bearing Fit Post Repair		
	0 Degrees	60 Degrees	120 Degrees
86.	Bearing Cap Condition Post Repair		
	Drive End Bearing Cap	Opposite Drive End Bearing Cap	
87.	End Bell Air Seal Fits Post Repair		
	Drive End Air Seal	Opposite Drive End Air Seal	
88.	End Bell Repair Sign-off		
Assembly			
89.	QC Check All Parts for Cleanliness Prior to Assembly		

90.	Photograph All Major Components prior to assembly		
91.	Final Insulation Resistance Test		
92.	Assembled Shaft Endplay		
93.	Assembled Shaft Runout		
94.	Test Run Voltage		
	Volts	Volts	Volts
95.	Test Run Amperage		
	Amps	Amps	Amps
96.	Drive End Vibration Readings - Inches Per Second		
	Horizontal	Vertical	Axial
97.	Opposite Drive End Vibration Readings - Inches Per Second		
	Horizontal	Vertical	Axial
98.	Ambient Temperature - Fahrenheit		
99.	Drive End Bearing Temps - Fahrenheit		
	5 Minutes	10 Minutes	15 Minutes
100.	Opposite Drive End Bearing Temps - Fahrenheit		
	5 Minutes	10 Minutes	15 Minutes
101.	Document Final Condition with Pictures after paint		
102.	Final Pics and QC Review		