



AC Recondition As Found
SWEET HOME, HIGGINS & RED OAK
PO BOX 281
SWEET HOME, AR 72164

FolderID: 101001
FormID: 16061152

AC Recondition - Rev. 2
Location: MOTOR SHOP LR
Serial Number: 127.185-0859 248
Description: 11HP FLYGT SUBMERSIBLE PUMP

Hi-Speed Job Number: 101001
Product Number: 3127.185-1680157
Serial Number: 127.185-0859 248
HP/kW: 11 (HP)
Voltage: 230 / 460
Current: 13/6.5
Phase: Three
Hz: 60 (Hz)
Enclosure: Submersible
J-box Included: Complete
Bearing RTDs: No
Stator RTDs: No
Repair Stage: Final
Heaters: No
Winding Type : Random Wound
Bearing Type: Rolling Element

Priorities Found: ● 1 - High ● 4 - Good

Overall Condition



- 1. Report Date
- 2. Nameplate Picture

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

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4. Describe the Overall Condition of the Equipment as Received
Serviceable

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

Initial Mechanical/Electrical



6. Does Shaft Turn Freely?

7. Does Shaft Have Visible Damage?

8. Assembled Shaft Runout

9. Assembled Shaft End Play

10. Air Gap Variation <10%

11. Lead Condition

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12. Lead Length

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13.	Frame Condition				serviceable
14.	Fan Condition				(N) NA
15.	Broken or Missing Components				
Initial Electrical Inspection 					
16.	Insulation Resistance/Megger				Megohms
17.	Winding Resistance				
	1-2	1-3		2-3	
● 18.	Perform Surge Test				(NA) Not Applicable
19.	Number of Stator Slots				
20.	Stator Condition				rewind P70
					
Mechanical Inspection 					
21.	Drive End Bearing Brand				Skf
22.	Drive End Bearing Number-				3307 A-2Z TN9/C3 P33
					
					
23.	Drive End Bearing Qty.				1
24.	Drive End Bearing Type				(Ball) Ball Bearing
	 Double wide double row.				
25.	Drive End Lubrication Type				(Oil) Oil Lubricated
26.	Drive End Bearing Insulation or Grounding Device?				none
27.	Drive End Wavy Washer/Snap-Ring Other Retention Device?				bearing cap
28.	Drive End Bearing Condition				worn
29.	Opposite Drive End Bearing Brand				Fag

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31. Opposite Drive End Bearing Qty.	1
32. Opposite Drive End Bearing Type	(Ball) Ball Bearing
33. Opposite Drive End Lubrication Type	(Oil) Oil Lubricated
34. Opposite Drive End Bearing Insulation or Grounding Device?	
35. Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?	none
36. Opposite Drive End Bearing Condition	worn
37. Drive End Seal	replace
38. Opposite Drive End Seal	

Rotor Inspection



39. Rotor Type/Material	(Squirrel Aluminum) Squirrel Cage Aluminum Die Cast
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40. Growler Test	
41. Number of Rotor Bars	
42. Rotor Condition	pass

43. List the Parts needed for the Repair Below
Seal kit/o ring kit. Bearings: 3307 & 6207 2Z

44. Signature of Technician that Disassembled Motor	Terrence Holland
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Mechanical Fits- Rotor

45. Shaft Runout

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

1.378

1.378

1.378

50. Drive End Bearing Shaft Fit Condition

(P) Pass

51. Opposite Drive End Bearing Shaft Fit

0 Degrees

60 Degrees

120 Degrees

1.3782

1.3782

1.3782

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

1.3783

1.3782

1.3783

55. Drive End - Endbell Bearing Fit Condition

(P) Pass

56. Opposite Drive End - Endbell Bearing Fit

0 Degrees

60 Degrees

120 Degrees

Excessive wear.

57. Opposite Drive End - Endbell Bearing Fit Condition

(F) Fail

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

Upper housing needs to be re-sleeved.

61. Technician

Terrence Holland



Dynamic Balance Report

62. Rotor Weight and Balance Grade

Rotor Weight	Balance Grade
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63. Initial Balance Readings

Drive End	Opposite Drive End
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64. Final Balance Readings

Drive End	Opposite Drive End
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65. Technician

Rewind

66. Core Test Results - Watts loss per Pound

Pre-Burnout	Post Burnout
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67. Core Hot Spot Test

Pre-Burnout	Post-Burnout
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68. Post Rewind Electrical Test- Insulation Resistance

69. Post Rewind Polarization Index

70. Post Rewind Winding Resistance

1-2	1-3	2-3
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71. Post Rewind Surge Test

72. Post Rewind Hi-Pot

73. Technician

Root Cause of Failure

74. Failure locations

75. Root cause of failure

Seal 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
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78. Coupling Fit Closest to Bearing Housing Post Repair

0 Degrees	90 Degrees	120 Degrees
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79. Coupling Fit Closest to the end of the Shaft Post Repair

0 Degrees	60 Degrees	120 Degrees
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80. Drive End Bearing Shaft Fit Post Repair

0 Degrees	60 Degrees	120 Degrees
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81. Opposite Drive End Bearing Shaft Fit Post Repair

0 Degrees	60 Degrees	120 Degrees
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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. Photograph All Major Components prior to assembly			
90. Final Insulation Resistance Test			
91. Assembled Shaft Endplay			
92. Assembled Shaft Runout			
93. Test Run Voltage	Volts	Volts	Volts
94. Test Run Amperage	Amps	Amps	Amps
95. Drive End Vibration Readings - Inches Per Second	Horizontal	Vertical	Axial
96. Opposite Drive End Vibration Readings - Inches Per Second	Horizontal	Vertical	Axial
97. Ambient Temperature - Fahrenheit			
98. Drive End Bearing Temps - Fahrenheit	5 Minutes	10 Minutes	15 Minutes
99. Opposite Drive End Bearing Temps - Fahrenheit	5 Minutes	10 Minutes	15 Minutes
100. Final Test Run Sign-off			
101. Document Final Condition with Pictures after paint			
102. Final Pics and QC Review			