



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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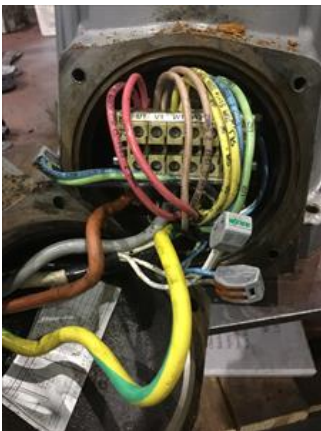


3. Photos of all six sides of the machine.

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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	
	<i>Double wide double row.</i>		
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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P3



40. Growler Test	
41. Number of Rotor Bars	
42. Rotor Condition	pass
43. List the Parts needed for the Repair Below <i>Seal kit/o ring kit. Bearings: 3307 & 6207 2Z</i>	
44. Signature of Technician that Disassembled Motor	Terrence Holland

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

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

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

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.	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		