

LR MOTORSHOP

Hi-Speed Industrial Service 7030 Ryburn Dr Millington, Tn 38053 901-873-5300

> FolderID: 101176 FormID: 16380885

# **AC Recondition As Found**

Welspun Tubular (11685)

9301 Frazier Pike Little Rock, AR 72206

Location:

AC Recondition - Rev. 2

Serial Number: C0701130125

Description: 150HP BALDOR 1800RPM 445T

Hi-Speed Job Number:	101176
Manufacturer:	Baldor
Product Number:	M4406T-4
Spec/ID #:	18J037X515H1
Serial Number:	C0701130125
HP/kW:	150 (HP)
RPM:	1780 (RPM)
Frame:	445T
Voltage:	460
Current:	168
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: 3 - High



5 - Good

#### **Overall Condition**

0

1. Report Date

Nameplate Picture



Photos of all six sides of the machine.

P45

P37



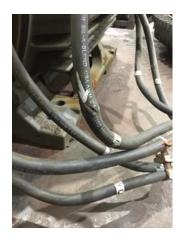


































4. Describe the Overall Condition of the Equipment as Received *Dirty but serviceable.* 

In	Initial Mechanical/Electrical		
	5.	Does Shaft Turn Freely?	(Yes) Yes
	6.	Does Shaft Have Visible Damage?	(No) No
	7.	Assembled Shaft Runout	0.001 Inches
	8.	Assembled Shaft End Play	
	9.	Air Gap Variation <10%	
	10.	Lead Condition	(F) Fail
	-	Insulation cracked &	
	11.	Lead Length	



13. Fan Condition (P) Pass P91

2-3



14. Broken or Missing Components

### **Initial Electrical Inspection**

0

- 15. Insulation Resistance/Megger
- 16. Winding Resistance

Perform Surge Test

1-2 1-3

**(P) Pass** P57



- 18. Number of Stator Slots
- 19. Stator Condition passed surge test but several leads need replacing
- 20. Stator Thermistors/Ohms

21.	Stator Overloads/Ohms		
Mecha	nical Inspection		0
22.	Drive End Bearing Brand	fag	
23.	Drive End Bearing Number-	6319	
24.	Drive End Bearing Qty.	1	
25.	Drive End Bearing Type	(Ball) Ball Bearing	
26.	Drive End Lubrication Type	(Grease) Grease Lubricated	
27.	Drive End Bearing Insulation or Grounding Device?	none	

(Squirrel Aluminum) Squirrel

Cage Aluminum Die Cast

РЗ



29. Drive End Bearing Condition replace			
30.	Opposite Drive End Bearing Brand	fag	
31.	Opposite Drive End Bearing Number-	6314	
32.	Opposite Drive End Bearing Qty.	1	
33.	Opposite Drive End Bearing Type	(Ball) Ball Bearing	
34. Opposite Drive End Lubrication Type		(Grease) Grease Lubricated	
35. Opposite Drive End Bearing Insulation or Grounding Device?		none	
36.	Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?	wavy washer	
37.	Opposite Drive End Bearing Condition	replace	
38.	Drive End Seal		
39. Opposite Drive End Seal			
Rotor	Rotor Inspection		



40. Rotor Type/Material

41.	Growler Test	(Pass) Pass
42.	Number of Rotor Bars	
43.	Rotor Condition	good
44	List the Parts needed for the Repair Below	

45. Signature of Technician that Disassembled Motor

Terrence Holland

A6. Shaft Runout  46. Shaft Runout  Drive End Bearing Fit Rotor Body Opposite Drive End Bearing  48. Coupling Fit Closest to Bearing Housing  0 Degrees  90 Degrees  120 Degrees  49. Coupling Fit Closest to the end of the Shaft  0 Degrees  60 Degrees  120 Degrees  50. Drive End Bearing Shaft Fit  0 Degrees  60 Degrees  120 Degrees  3.741  3.741  3.7499  51. Drive End Bearing Shaft Fit Condition  (P) Pass  52. Opposite Drive End Bearing Shaft Fit  0 Degrees  60 Degrees  120 Degrees  3.741  3.7499  51. Drive End Bearing Shaft Fit Condition  (P) Pass  52. Opposite Drive End Bearing Shaft Fit Condition  (P) Pass  53. Opposite Drive End Bearing Shaft Fit Condition  (P) Pass  54. Shaft Air Seal Fits  Drive End Air Seal  Opposite Drive End Searing Fit  O Degrees  60 Degrees  120 Degrees  50. Drive End - Endbell Bearing Fit  O Degrees  50. Drive End - Endbell Bearing Fit  O Degrees  50. Opposite Drive End - Endbell Bearing Fit  O Degrees  50. Degrees  60. Degrees  50. Degrees  50. Drive End - Endbell Bearing Fit  O Degrees  50. Degrees  50. Opposite Drive End - Endbell Bearing Fit  O Degrees  50. Drive End - Endbell Bearing Fit Condition  Fit  O Degrees  50. Drive End - Endbell Bearing Fit Condition  Fit  O Degrees  50. Degrees  50. Drive End - Endbell Bearing Fit Condition  Fit  O Degrees  50. Drive End - Endbell Bearing Fit Condition  Fit  O Degrees  50. Drive End - Endbell Bearing Fit Condition  Fit  O Degrees  50. Drive End Seal  Opposite Drive End Bearing Cap  Opposite Drive End Bearing Cap  Opposite Drive End Air Seal	Maaka	mical Fita Datas		
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Machine ODE housing fit	61.	List Machine Work Needed Be	elow	
		Machine ODE housing fit		

62. Technician Terrence Holland

## **Dynamic Balance Report**

0

63. Rotor Weight and Balance Grade

Rotor Weight Balance Grade

64. Initial Balance Readings

Drive End Opposite Drive End

65. Final Balance Readings

P27

Drive End Opposite Drive End

.10 .26



66. Technician Terrence Holland

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- If the f

#### Rewind

67. Core Test Results - Watts loss per Pound

Pre-Burnout Post Burnout

68. Core Hot Spot Test

Pre-Burnout Post-Burnout

- 69. Post Rewind Electrical Test- Insulation Resistance
- 70. Post Rewind Polarization Index
- 71. Post Rewind Winding Resistance

1-2 1-3 2-3

72. Post Rewind Surge Test

70	Post Rewind Hi-Pot			
73.				
74.	Technician			
	ause of Failure			
75.	Failure locations			
	Root cause of failure			
	nical Fits- Rotor - Post Repair			
	Shaft Runout Post Repair			
78.	Rotor Runout Post Repair			
	Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing	
79.	Coupling Fit Closest to Bearing H	ousing Post Repair		
	0 Degrees	90 Degrees	120 Degrees	
80.	Coupling Fit Closest to the end of	the Shaft Post Repair		
	0 Degrees	60 Degrees	120 Degrees	
81.	Drive End Bearing Shaft Fit Post	Repair		
	0 Degrees	60 Degrees	120 Degrees	
82.	Opposite Drive End Bearing Shaf	t Fit Post Repair		
	0 Degrees	60 Degrees	120 Degrees	
83.	Shaft Air Seal Fits Post Repair			
	Drive End Air Seal	Opposite Drive End Air Seal		
84.	Shaft Repair Sign-off			
Mecha	nical Fits- Bearing Housings	- Post Repair		
85.	Drive End - Endbell Bearing Fit P	ost Repair		
	0 Degrees	60 Degrees	120 Degrees	
86.	Opposite Drive End - Endbell Bea	ring Fit Post Repair		
	0 Degrees	60 Degrees	120 Degrees	
87.	Bearing Cap Condition Post Repa	air		
	Drive End Bearing Cap	Opposite Drive End Bearing Cap		
88.	End Bell Air Seal Fits Post Repair			
	Drive End Air Seal	Opposite Drive End Air Seal		
89.	End Bell Repair Sign-off			
Assem	•			
90.	QC Check All Parts for Cleanlines	•		
91.	Photograph All Major Component	s prior to assembly		
92.	Final Insulation Resistance Test			
93.	Assembled Shaft Endplay			
94.	Assembled Shaft Runout			

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.

95.	Test Run Voltage			
	Volts	Volts	Volts	
96.	Test Run Amperage			
	Amps	Amps	Amps	
97.	Drive End Vibration Readings - Inc	ches Per Second		
	Horizontal	Vertical	Axial	
98.	Opposite Drive End Vibration Rea	dings - Inches Per Second		
	Horizontal	Vertical	Axial	
99.	Ambient Temperature - Fahrenhei	t		
100.	Drive End Bearing Temps - Fahre	nheit		
	5 Minutes	10 Minutes	15 Minutes	
101.	Opposite Drive End Bearing Temps - Fahrenheit			
	5 Minutes	10 Minutes	15 Minutes	
102.	Document Final Condition with Pic	ctures after paint		
103.	Final Pics and QC Review			

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