

## 

# LR Motor Shop Repairs

## **Job Number 102832**

Prepared for Welspun Tubular (11685)

9301 Frazier Pike Little Rock AR 72206

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AC Inspection - Rev. 2: 21631

1.0



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### AC Inspection as Found

Welspun Tubular (11685)

9301 Frazier Pike Little Rock, AR 72206

Serial Number:

AC Inspection - Rev. 2

Location: LR MOTORSHOP

Description:25HP AJAY 3450 RPM

21631

Hi-Speed Job Number:	102832
Manufacturer:	Other
Product Number:	TYPE: 43PH25
Serial Number:	21631
HP/kW:	25 (HP)
RPM:	21631 (RPM)
Voltage:	480
Current:	33 (Amps)
Phase:	Three
Hz:	60 (Hz)
Enclosure:	TEFC
# of Leads:	6
J-box Included:	Half
Coupling/Sheave:	Propeller
Bearing RTDs:	No
Stator RTDs:	No
Repair Stage:	Teardown Inspection
Rewind:	No
Shaft Machined Fit Repairs Required:	No
Bearing Housing Machined Fit Repairs Required:	No
Heaters:	No
Winding Type :	Random Wound
Bearing Type:	Rolling Element

Priorities Found: 10 - Good

#### **Overall Condition**

1. Report Date

### 2. Nameplate Picture



3. Photos of all six sides of the machine.









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	4.	Describe the Overall Condition of the Equipment as Received  Dirty		
	5.	Distance from the end of the shaft to the Coupling/Sheave	inches	
	-	Na		
Initial Mechanical/Electrical				
	6.	Does Shaft Turn Freely?	(Y) Yes	
	7.	Does the shaft require T.I.R in Lathe to identify additional repairs?	(No) No	
	8.	Does Shaft Have Visible Damage?	(No) No	
	9.	Assembled Shaft Runout	Inches	
	-	Na		
	10.	Assembled Shaft End Play	inches	
	-	Na		
	11.	Air Gap Variation <10%		
	-	Na		
	12.	Lead Condition	(P) Pass	
	13.	Lead Length	8 Inches	
	14.	Does it have Lugs?, If so what is the Stud Size?		
	-	Yes		
	15.	Lead Numbers	1-6	
	16.	Frame Condition		
	-	Pass		
	17.	Fan Condition	(P) Pass	



12	Broken or Missing Components			
10.	Missing flange bolts			
	al Electrical Inspection			
	. Insulation Resistance/Megger Megohms			
19.	Na	Megonins		
,	Winding Resistance			
20.	1-2 1-3	2.2		
	1-2	2-3		
-	Na			
21.	Perform Surge Test	(P) Pass		
22.	Number of Stator Slots	36		
23.	Stator Condition			
-	Pass			
24.	Stator Thermistors/Ohms			
-	Na			
25.	Stator Overloads/Ohms			
-	Na			
Mecha	anical Inspection			
26.	Drive End Bearing Brand	FAG		
27.	Drive End Bearing Number-	6310		
28.	Drive End Bearing Qty.	1		
29.	Drive End Bearing Type	(Ball) Ball Bearing		
30.	Drive End Lubrication Type	(Grease) Grease Lubricated		
31.	Drive End Bearing Insulation or Grounding Device?	na		
32.	Drive End Wavy Washer/Snap-Ring Other Retention Device?	na		
33.	Drive End Bearing Condition	replace		
34.	Opposite Drive End Bearing Brand	FAG		
35.	Opposite Drive End Bearing Number-	6308		
36.	Opposite Drive End Bearing Qty.	1		
37.	Opposite Drive End Bearing Type	(Ball) Ball Bearing		
38.	Opposite Drive End Lubrication Type	(Grease) Grease Lubricated		
39.				
-	Na			
40.	Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?	na		
41.	Opposite Drive End Bearing Condition	replace		
		1.18-1.64-0.294		
43.	Opposite Drive End Seal			
-	Na			
	Inspection			
44.	Rotor Type/Material	(Squirrel Aluminum) Squirrel Cage Aluminum Die Cast		
45.		(Pass) Pass		
	Number of Rotor Bars	28		
	Rotor Condition	pass		
48.	List the Parts needed for the Repair Below 6310 6308 DE seal			

49.	Signature of	Technician that Disassembled Motor	

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N	Mechanical Fits- Rotor				
		Shaft Runout 0.002 inches			
	51.	51. Rotor Runout			
		Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing	
		<u> </u>	•	.,	
	-	Na			
	52.	2. Coupling Fit Closest to Bearing Housing			
		0 Degrees	90 Degrees	120 Degrees	
		Na			
	53.		Shoft		
	55.	•		120 Dograda	
		0 Degrees	60 Degrees	120 Degrees	
	•	Na			
	54.	Drive End Bearing Shaft Fit			
		0 Degrees	60 Degrees	120 Degrees	
		1.9688	1.9689	1.9689	
	55.	Drive End Bearing Shaft Fit Condition		(P) Pass	
	56. Opposite Drive End Bearing Shaft Fit				
		0 Degrees	60 Degrees	120 Degrees	
		1.5752	1.5753	1.5753	
	57.	Opposite Drive End Bearing Shaft Fit	(P) Pass		
	58.	58. Shaft Air Seal Fits			
		Drive End Air Seal	Opposite Drive End Air Seal		
	_	Ma			
	, p	Na			
IV		anical Fits- Bearing Housings			
	59.	Drive End - Endbell Bearing Fit	CO Degrees	420 Dagger	
		0 Degrees 4.3315	60 Degrees 4.3314	120 Degrees 4.3314	
	60	Drive End - Endbell Bearing Fit Condit		4.3314 (P) Pass	
		Opposite Drive End - Endbell Bearing		(F) F d S S	
	01.	0 Degrees	60 Degrees	120 Degrees	
		3.5442	3.5441	3.5441	
	62.			(P) Pass	
		Bearing Cap Condition		(. ) / 400	
		Drive End Bearing Cap	Opposite Drive End Bearing Cap		
	•	Pass			

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64.	End Bell Air Seal Fits		
	Drive End Air Seal	Opposite Drive End Air Seal	
-	Na		
65.	List Machine Work Needed Below		
	Na		
66.	Technician		Cw
Men			
Root Cause of Failure			
67.	Failure locations		
	Seal		
68.	Root cause of failure		
	Bad seal		



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