



AC Inspection as Found Welspun Tubular (11685) 9301 Frazier Pike

Little Rock, AR 72206

FolderID: 102984 FormID: 20453347

AC Inspection - Rev. 2

LR MOTORSHOP Location:

Serial Number: 21108

Description:12.5HP AJAY EVAL

Hi-Speed Job Number:	102984
Manufacturer:	Other
Spec/ID #:	TYPE:325PH125
Serial Number:	21108
HP/kW:	12.5 (HP)
RPM:	3450 (RPM)
Voltage:	480
Phase:	Three
Hz:	60 (Hz)
Enclosure:	TEFC
# of Leads:	6
J-box Included:	Complete
Coupling/Sheave:	None
Date Received:	05/21/2024
Bearing RTDs:	No
Stator RTDs:	No
Repair Stage:	Final
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: 11 - Good



Overall Condition

0

06/05/2024

Report Date 1.

P37















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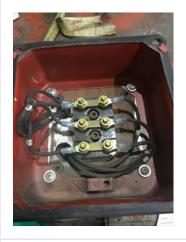
Disassembled by customer.





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

In	itial I	Mechanical/Electrical	o	
	5.	Does Shaft Turn Freely?	(Y) Yes	
	6.	Does the shaft require T.I.R in Lathe to identify additional repairs?	(No) No	
	7.	Does Shaft Have Visible Damage?	(No) No	
	8.	Assembled Shaft Runout	0.002 Inches	
	9.	Assembled Shaft End Play	0 inches	
	10.	Air Gap Variation <10%		
	11.	Lead Condition	(P) Pass	
	12.	Lead Length	8 Inches	P87



13.	Does it have Lugs?, If so what is the Stud Size?	(Yes) Yes
14.	Lead Numbers	
-	W1-W6 Delta.	
15.	Frame Condition	pass





- 17. Broken or Missing Components
- Various pump hardware missing. Pump was disassembled by customer, and the associated hardware was not shipped with it.

Initial Electrical Inspection

0

P8

Megohms

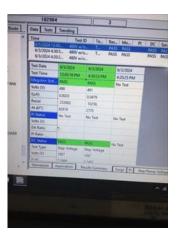
18. Insulation Resistance/Megger

16. Insulation Resistance/Megger





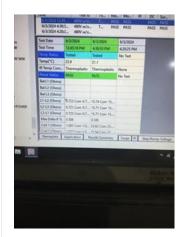




1-2 1-3 2-3







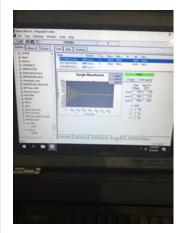
20. Perform Surge Test
(F) Fail
P57

Failed step voltage test. Will wash and baker stator and retest. Stator passed after wash and bake.













21. Number of Stator Slots 24

22. Stator Condition pass

23. Stator Thermistors/Ohms

24. Stator Overloads/Ohms

Mechanical Inspection

25. Drive End Bearing Brand





o

P12

FAG

26.	Drive End Bearing Number-	6308 RSR
27.	Drive End Bearing Qty.	1
28.	Drive End Bearing Type	(Ball) Ball Bearing
29.	Drive End Lubrication Type	(Grease) Grease Lubricated
30.	Drive End Bearing Insulation or Grounding Device?	none

31.	Drive End Wavy Washer/Snap-Ring Other Retention Device?	none	
32.	Drive End Bearing Condition	replace	
33.	Opposite Drive End Bearing Brand	FAG	P92





34.	Opposite Drive End Bearing Number-	6306 RSR	
35.	Opposite Drive End Bearing Qty.	1	
36.	Opposite Drive End Bearing Type	(Ball) Ball Bearing	
37.	Opposite Drive End Lubrication Type	(Grease) Grease Lubricated	
38.	Opposite Drive End Bearing Insulation or Grounding Device?	none	
39.	Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?	none	
40.	Opposite Drive End Bearing Condition	replace	
41.	Drive End Seal	40*55*8	P120



42. Opposite Drive End Seal P123



Rotor Inspection

43. Rotor Type/Material

(Squirrel Aluminum) Squirrel Cage Aluminum Die Cast

P



44.	Growler Test	(Pass) Pass
45.	Number of Rotor Bars	20
46.	Rotor Condition	pass
47.	List the Parts needed for the Repair Below	
	Bearings & seals & various pump attachment hardware.	
48.	Signature of Technician that Disassembled Motor	Terrence Holland

Land Holland

Mechanical Fits- Rotor

49.	Shaft Runout		0.002 inches	
50.	Rotor Runout			
	Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing	
51.	Coupling Fit Closest to Bearing	Housing		
	0 Degrees	90 Degrees	120 Degrees	

	52.	Coupling Fit Closest to the end of	the Shaft			
		0 Degrees	60 Degrees	120 Degrees		
		•	-			
	53.	Drive End Bearing Shaft Fit				
		0 Degrees	60 Degrees	120 Degrees		
		1.575	1.575	1.575		
	54.	Drive End Bearing Shaft Fit Condi	tion		(P) Pass	
	55.	Opposite Drive End Bearing Shaft	Fit			
		0 Degrees	60 Degrees	120 Degrees		
		1.1812	1.1812	1.1812		
	56.	Opposite Drive End Bearing Shaft	Fit Condition		(P) Pass	
	57.	Shaft Air Seal Fits				
		Drive End Air Seal	Opposite Drive End Air Seal			
M	echa	nical Fits- Bearing Housings			<u>I</u> C	
	58.	Drive End - Endbell Bearing Fit				
		0 Degrees	60 Degrees	120 Degrees		
		3.5436	3.5435	3.5437		
	59.	Drive End - Endbell Bearing Fit Co			(P) Pass	
	60.	One selfe Dates Facility Facility II Dec	ation as Fit			
	60.	Opposite Drive End - Endbell Bea	ring Fit			
	60.	Opposite Drive End - Endbell Bea	60 Degrees	120 Degrees		
	60.			120 Degrees 2.8349		
	61.	0 Degrees 2.835 Opposite Drive End - Endbell Bea	60 Degrees 2.8351		(P) Pass	
		0 Degrees 2.835 Opposite Drive End - Endbell Bear Bearing Cap Condition	60 Degrees 2.8351 ring Fit Condition	2.8349	(P) Pass	P52
	61.	0 Degrees 2.835 Opposite Drive End - Endbell Bea	60 Degrees 2.8351	2.8349	(P) Pass	P52
	61.	0 Degrees 2.835 Opposite Drive End - Endbell Bear Bearing Cap Condition	60 Degrees 2.8351 ring Fit Condition	2.8349	(P) Pass	P52

63. End Bell Air Seal Fits

Drive End Air Seal Opposite Drive End Air Seal

Na

64. List Machine Work Needed Below None

65.	Technician	_	Terrence Holland	
	√			
/				
	2 /	/		
-	Witness:			
Root C	ause of Failure			
66.	Failure locations			
	Unknown			
67.	Root cause of failure			
	Unable to determine due to pump	seals and various hardware missing and	not shipped by customer.	
Dynan	nic Balance Report			
68.	Rotor Weight and Balance Grade			
	Rotor Weight	Balance Grade		
69.	Initial Balance Readings			
	Drive End	Opposite Drive End		
70.	Final Balance Readings			
	Drive End	Opposite Drive End		
7.4	T			
71.	Technician			
Assem	•	D:		
72.	QC Check All Parts for Cleanline	·		
73. 74.	Photograph All Major Component Final Insulation Resistance Test	is prior to assembly		
74.	Assembled Shaft Endplay			
76.	Assembled Shaft Runout			
77.	Test Run Voltage			
,,,	Volts	Volts	Volts	
	VOICS	VOICS	Voits	
78.	Test Run Amperage			
	Amps	Amps	Amps	
	,pc	7 111.00	, ange	
79.	Drive End Vibration Readings - Ir	nches Per Second		
	Horizontal	Vertical	Axial	
80.	Opposite Drive End Vibration Rea	adings - Inches Per Second		
	Horizontal	Vertical	Axial	
81.	Ambient Temperature - Fahrenhe	eit		
82.	Drive End Bearing Temps - Fahre	enheit		

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15 Minutes

10 Minutes

5 Minutes

83.	Opposite Drive End Bearing T	emps - Fahrenheit		
	5 Minutes	10 Minutes	15 Minutes	
	D . E. 10 191 191	Distance of the manager		
84.	Document Final Condition with	n Pictures after paint		