

## 

# LR Motor Shop Repairs

## **Job Number 103634**

Prepared for Welspun Tubular (11685)

9301 Frazier Pike Little Rock AR 72206

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AC Inspection as Found - LR MOTORSHOP

AC Inspection - Rev. 2: CAT: H0150V2SLG

1.0



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

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## **AC Inspection as Found** Welspun Tubular (11685)

9301 Frazier Pike Little Rock, AR 72206

#### AC Inspection - Rev. 2

Location: LR MOTORSHOP Serial Number: CAT: H0150V2SLG

Description: 150HP US MOTORS 1780RPM

Hi-Speed Job Number:	103634
Manufacturer:	US Motors/Nidec
Product Number:	M: DN11
Spec/ID #:	A047712362-009 R 0004
Serial Number:	CAT: H0150V2SLG
HP/kW:	150 (HP)
RPM:	1780 (RPM)
Frame:	H444TP
Voltage:	460
Current:	164 (Amps)
Phase:	Three
Hz:	60 (Hz)
Service Factor:	1.15
Enclosure:	WPI
# of Leads:	6
J-box Included:	None
Coupling/Sheave:	None
Bearing RTDs:	No
Stator RTDs:	No
Repair Stage:	Final
Rewind:	No
Shaft Machined Fit Repairs Required:	Yes
Bearing Housing Machined Fit Repairs Required:	Yes
Heaters:	Yes
Winding Type :	Random Wound
Bearing Type:	Rolling Element

Priorities Found: **3 - High** 





7 - Good

## **Overall Condition**

10/21/2024 1. Report Date

#### 2. Nameplate Picture





3. Photos of all six sides of the machine.























Heater ohms





- 4. Describe the Overall Condition of the Equipment as Received Serviceable
- 5. Report Date [COPY]

## **Initial Mechanical/Electrical**

- Does Shaft Turn Freely?

  (Y) Yes

  (No.) No.
  - 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 Na	Inches
10.	Assembled Shaft End Play	inches
11.	Air Gap Variation <10%	
12.	Lead Condition	(P) Pass
13.	Lead Length	22 Inches
14.	Does it have Lugs?, If so what is the Stud Size?	(Yes) Yes



15. Lead Numbers

16. Frame Condition

17. Fan Condition

18. Heater Quantity, Ratings

Quantity

Volts/Watts

17. Pass/Fail

115/192

The control of the co



- 19. Broken or Missing Components
- No connection box.

## **Initial Electrical Inspection**

### 20. Insulation Resistance/Megger

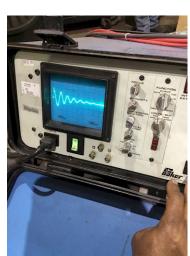


21. Winding Resistance

1-2

22. Perform Surge Test (P) Pass

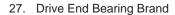




2-3

Megohms

23.	Number of Stator Slots	72
24.	Stator Condition	rusty but passed surge & Meg
25.	Stator Thermistors/Ohms	
26.	Stator Overloads/Ohms	.1
Mech	anical Inspection	



**FAG** 

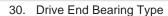
28. Drive End Bearing Number-

7322-B-XL-MP



29. Drive End Bearing Qty.

(Thrust) Thrust







31. Drive End Lubrication Type	(Oil) Oil Lubricated
32. Drive End Bearing Insulation or Grounding Device?	none
33. Drive End Wavy Washer/Snap-Ring Other Retention Device?	none
34. Drive End Bearing Condition	replace
35. Opposite Drive End Bearing Brand	in- readable
36. Opposite Drive End Bearing Number-	6215 J
37. Opposite Drive End Bearing Qty.	1
38. Opposite Drive End Bearing Type	(Ball) Ball Bearing
39. Opposite Drive End Lubrication Type	(Grease) Grease Lubricated
40. Opposite Drive End Bearing Insulation or Grounding Device?	
Aegis ring attached to bearing cap	
41. Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?	snap-ring
42. Opposite Drive End Bearing Condition	rusted and worn with cage failure





40.		
44.	Opposite Drive End Seal	dust seal

44.	Opposite Drive End Seal	dust seal
Rotor	Inspection	
45.	Rotor Type/Material	(Squirrel Aluminum) Squirrel Cage Aluminum Die Cast
-	Hollow shafted.	
46.	Growler Test	(Pass) Pass
47.	Number of Rotor Bars	57
48.	Rotor Condition	pass
49.	List the Parts needed for the Repair Below	
	Sleeve ODE housing fit.	
50.	Signature of Technician that Disassembled Motor	Terrence Holland

Mec	hani	cal	Fits-	Rotor

MECH	anicai Fils- Roloi		
51.	Shaft Runout		
52.	Rotor Runout		
	Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing
53.	Coupling Fit Closest to Bearing Housi	ng	
	0 Degrees	90 Degrees	120 Degrees
54.	Coupling Fit Closest to the end of the Shaft		
	0 Degrees	60 Degrees	120 Degrees
55.	Drive End Bearing Shaft Fit		
	0 Degrees	60 Degrees	120 Degrees
	4.3302	4.3301	4.3301
<b>5</b> 6.	Drive End Bearing Shaft Fit Condition		(F) Fail

57.	Opposite Drive End Bearing Shaft Fit			
	0 Degrees	60 Degrees	120 Degrees	
	2.9522	2.9523	2.9523	
-	Minimum allowed			
58.	Opposite Drive End Bearing Shaft Fit	Condition	(F) Fail	
59.	Shaft Air Seal Fits			
	Drive End Air Seal	Opposite Drive End Air Seal		
Mecha	anical Fits- Bearing Housings			
	Drive End - Endbell Bearing Fit			
	0 Degrees	60 Degrees	120 Degrees	
61.	Drive End - Endbell Bearing Fit Condi	tion	(P) Pass	
62.	Opposite Drive End - Endbell Bearing	Fit		
	0 Degrees	60 Degrees	120 Degrees	
-	Has lip worn in.			
63.	Opposite Drive End - Endbell Bearing	Fit Condition	(F) Fail	
64.	Bearing Cap Condition			
	Drive End Bearing Cap	Opposite Drive End Bearing Cap		
65.	End Bell Air Seal Fits			
	Drive End Air Seal	Opposite Drive End Air Seal		
66.	List Machine Work Needed Below Sleeve lower end bell housing, and repa	air upper and lower bearing shaft fits. Replace	worn shaft grounding ring.	
67.	Technician		Terrence Holland	
,	T	Al P		
Root (	Cause of Failure	/		
68.	Failure locations			
	Lower bear was rusted and grease was contaminated. Lower bearing housing has lip worn in and upper bearing shaft fit measures too small.			

69. Root cause of failure

Water contaminated grease in lower bearing.

## **Dynamic Balance Report**

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71. Initial Balance Readings		
Drive End	Opposite Drive End	
.37	1.26	
72. Final Balance Readings		
Drive End	Opposite Drive End	
.05	.07	
73. Technician		RW

161

#### Mechanical Fits- Rotor - Post Repair

111001	iambar rits- Notor - rost Nepan		
74	Shaft Runout Post Repair		0.001 inches
75	Rotor Runout Post Repair		
	Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing
	0.002	0.002	0.002
76	Coupling Fit Closest to Bearing Housi	ng Post Repair	
	0 Degrees	90 Degrees	120 Degrees
77	. Coupling Fit Closest to the end of the Shaft Post Repair		
	0 Degrees	60 Degrees	120 Degrees
78	Drive End Bearing Shaft Fit Post Rep	air	
	0 Degrees	60 Degrees	120 Degrees
-	D.W.		

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79. Opposite Drive End Bearing Shaft Fit Post Repair		
0 Degrees	60 Degrees	120 Degrees
2.9534	2.9534	2.9534



80. Shaft Air Seal Fits Post Repair		
Drive End Air Seal	Opposite Drive End Air Seal	
81. Shaft Repair Sign-off		Gary

Mechanical Fits- Bearing Housings - Post Repair			
82. Drive End - Endbell Bearing F	2. Drive End - Endbell Bearing Fit Post Repair		
0 Degrees	60 Degrees	120 Degrees	
83. Opposite Drive End - Endbell	83. Opposite Drive End - Endbell Bearing Fit Post Repair		
0 Degrees	60 Degrees	120 Degrees	
5.1187	5.1188	5.1188	



#### 84. Bearing Cap Condition Post Repair

Drive End Bearing Cap

Opposite Drive End Bearing Cap

Installed AGIS ring on O.D.E. bearing cap.



85. End Bell Air Seal Fits Post Repair

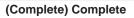
Drive End Air Seal Opposite Drive End Air Seal

86. End Bell Repair Sign-off Gary

### **Assembly**

87. QC Check All Parts for Cleanliness Prior to Assembly

88. Photograph All Major Components prior to assembly





















Megohms



90.	Assembled Shaft Endplay		inche	es
-	Na			
91.	Assembled Shaft Runout		inche	es
-	Na			
92.	Test Run Voltage			
	Volts	Volts	Volts	
	457	457	459	



93. Test Run Amperage		
Amps	Amps	Amps
41.2	40.1	40.7



### TRH

94.	Drive End Vibration Readings - Inches	s Per Second	
	Horizontal	Vertical	Axial
	0.03	0.03	0.04
95.	Opposite Drive End Vibration Readings - Inches Per Second		
	Horizontal	Vertical	Axial
-	Na		
96.	Ambient Temperature - Fahrenheit		
-	Na		
	. Drive End Bearing Temps - Fahrenheit		
97.	Drive End Bearing Temps - Fahrenhe	it	
97.	Drive End Bearing Temps - Fahrenhe 5 Minutes	it 10 Minutes	15 Minutes
97.	· ·		15 Minutes
97.	· ·		15 Minutes
97.	5 Minutes	10 Minutes	15 Minutes
•	5 Minutes	10 Minutes	15 Minutes 15 Minutes
•	5 Minutes  Na  Opposite Drive End Bearing Temps -	10 Minutes Fahrenheit	
•	5 Minutes  Na  Opposite Drive End Bearing Temps -	10 Minutes Fahrenheit	









100. Final Pics and QC Review

RW

Co sign TRH



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- 5. <u>DELIVERY OF GOODS AND/OR SERVICES.</u> Unless otherwise identified in the quotation, all shipments are F.O.B. Hi-Speed's warehouse and the title to and all risk of loss with respect to any goods shipped shall pass to Buyer when such goods are delivered to the carrier at Hi-Speed's warehouse. Hi-Speed will use its best efforts to affect delivery by the date or dates specified in the quotation. However, Hi-Speed shall not be liable for delay in or failure to make shipment, or to perform services, by any identified date for any reason whatsoever, including but not limited to, causes beyond its reasonable control, such as strikes, fires, floods, epidemics, quarantines, restrictions, severe weather, embargos, acts of God, or public enemy, war, riot, delays in transportation or the inability to obtain necessary labor, materials or manufacturing facilities.
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- 8. WARRANTIES. Hi-Speed warrants that all goods shall conform in all material aspects to the goods identified in the quotation to Buyer and/or purchase order, and Hi-Speed makes to Buyer the manufacturer's express warranty for any goods sold to Buyer, which is offered by the manufacturer at the time of acceptance of any quotation by Buyer. This warranty is conditioned upon the installation, operation, and maintenance of the goods in accordance with the manufacturer's recommendations and/or standard industry practice and the goods at all times being operated or used under normal operating conditions for which they were designed. Hi-Speed, at its sole option, will repair or

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