



KEEPING YOUR FACILITY UP TO SPEED
— EVERY DAY SINCE 1946 —

LR Motor Shop Repairs

Job Number 104779

Prepared for Welspun Tubular (11685)

9301 Frazier Pike
Little Rock AR 72206

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AC Inspection as Found - *LR MOTOR SHOP*

AC Inspection - Rev. 2

1.0

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AC Inspection as Found

Welspun Tubular (11685)

9301 Frazier Pike
Little Rock, AR 72206

FolderID: 104779
FormID: 24860583

AC Inspection - Rev. 2

Location: LR MOTOR SHOP

Serial Number:

Description: 60 HP NIDEC

Hi-Speed Job Number:	104779
Manufacturer:	US Motors/Nidec
Product Number:	17703592-100
Spec/ID #:	Y11177035920001M0001
HP/kW:	60 (HP)
RPM:	3570 (RPM)
Frame:	364TP
Voltage:	460
Current:	66 (Amps)
Phase:	Three
Hz:	60 (Hz)
Service Factor:	1.15
Enclosure:	TEFC
# of Leads:	3
J-box Included:	Complete
Coupling/Sheave:	None
Bearing RTDs:	No
Stator RTDs:	No
Repair Stage:	Teardown Inspection
Rewind:	No
Shaft Machined Fit Repairs Required:	No
Bearing Housing Machined Fit Repairs Required:	Yes
Heaters:	No
Winding Type :	Random Wound
Bearing Type:	Rolling Element

Priorities Found: ● 2 - High ● 12 - Good

Overall Condition

1. Report Date

06/23/2025

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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		
<i>Dirty but serviceable</i>		
<input checked="" type="radio"/>	5. Is this a UL Listed Motor	(No) No
<input checked="" type="radio"/>	6. Is the motor water cooled or can be pressure checked before teardown	(No) No
Initial Mechanical/Electrical		
<input checked="" type="radio"/>	7. Does Shaft Turn Freely?	(Y) Yes
<input checked="" type="radio"/>	8. Does the shaft require T.I.R in Lathe to identify additional repairs?	(No) No
	9. Does Shaft Have Visible Damage?	(No) No
	10. Assembled Shaft Runout	Inches
<input type="radio"/>	Nw	
	11. Assembled Shaft End Play	inches
<input type="radio"/>	Na	
	12. Air Gap Variation <10%	
<input type="radio"/>	Na	
<input checked="" type="radio"/>	13. Lead Condition	(P) Pass
	14. Lead Length	20 Inches
<input checked="" type="radio"/>	15. Does it have Lugs?, If so what is the Stud Size?	(Yes) Yes



	16. Lead Numbers	123
<input checked="" type="radio"/>	17. Are the Leads insulated with Chico or other material	(No) No
	18. Frame Condition	pass

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20.	Does motor have internal fan?	(No) No
21.	Broken or Missing Components	No
Initial Electrical Inspection		
22.	Insulation Resistance/Megger	7691 Megohms
23.	Winding Resistance	
	1-2	1-3
	0.0979	0.0989
		2-3
		0.0990
24.	Perform Surge Test	(P) Pass



25. Number of Stator Slots	46
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26. Stator Condition

wash and dry



27. Stator Thermistors/Ohms

Na

28. Stator Overloads/Ohms

Na

Mechanical Inspection

29. Drive End Bearing Brand

FAG

30. Drive End Bearing Number-

7314



31. Drive End Bearing Qty.

1

32. Drive End Bearing Type

(Thrust) Thrust

33. Drive End Lubrication Type

(Grease) Grease Lubricated

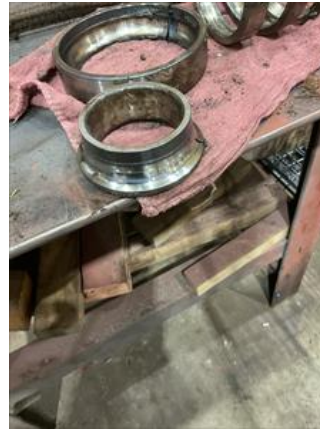
34. Drive End Bearing Insulation or Grounding Device?

Na

35. Drive End Wavy Washer/Snap-Ring Other Retention Device?

Na


36. Drive End Bearing Condition



Grease contamination

37. Opposite Drive End Bearing Brand	KBC
38. Opposite Drive End Bearing Number-	6213



39. Opposite Drive End Bearing Qty.	1
40. Opposite Drive End Bearing Type	(Ball) Ball Bearing
41. Opposite Drive End Lubrication Type	(Grease) Grease Lubricated
42. Opposite Drive End Bearing Insulation or Grounding Device?	
 Na	
43. Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?	shims
44. Opposite Drive End Bearing Condition	



Grease contamination

45. Drive End Seal	improve
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46. Opposite Drive End Seal	Na
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Rotor Inspection	
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47. Rotor Type/Material	(Squirrel Aluminum) Squirrel Cage Aluminum Die Cast
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48. Growler Test	(Pass) Pass
49. Number of Rotor Bars	34
50. Rotor Condition	PASS

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51. List the Parts needed for the Repair Below

1-7314 thrust bearing
2-6213 BEARING

52. Signature of Technician that Disassembled Motor

RW



Mechanical Fits- Rotor

53. Shaft Runout **0.0002 inches**

54. Rotor Runout

Drive End Bearing Fit

Rotor Body

Opposite Drive End Bearing

55. Coupling Fit Closest to Bearing Housing

0 Degrees

90 Degrees

120 Degrees

56. Coupling Fit Closest to the end of the Shaft

0 Degrees

60 Degrees

120 Degrees

57. Drive End Bearing Shaft Fit

0 Degrees

60 Degrees

120 Degrees

2.7561

2.7561

2.7561

58. Drive End Bearing Shaft Fit Condition

(P) Pass

59. Opposite Drive End Bearing Shaft Fit

0 Degrees

60 Degrees

120 Degrees

2.5595

2.5595

2.5595

60. Opposite Drive End Bearing Shaft Fit Condition

(P) Pass

61. Shaft Air Seal Fits

Drive End Air Seal

Opposite Drive End Air Seal

Pass

Mechanical Fits- Bearing Housings

62. Drive End - Endbell Bearing Fit

0 Degrees

60 Degrees

120 Degrees

5.906

5.906


5.906



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63.	Drive End - Endbell Bearing Fit Condition	(P) Pass	
64.	Opposite Drive End - Endbell Bearing Fit		
	0 Degrees	60 Degrees	120 Degrees
	4.7261	4.7261	4.7261
	Bad Resleeve		
65.	Opposite Drive End - Endbell Bearing Fit Condition	(F) Fail	



66.	Bearing Cap Condition	
	Drive End Bearing Cap	Opposite Drive End Bearing Cap
	<div>Pass</div>	
67.	End Bell Air Seal Fits	
	Drive End Air Seal	Opposite Drive End Air Seal
	<div>Pass</div>	
68.	List Machine Work Needed Below	
	Ode end bell bearing fit bad	
69.	Technician	RW
	<div></div>	
	<div>Co sign CRW</div>	
Root Cause of Failure		
70.	Failure locations	
	Bearings bad end bell bearing fit contaminated grease	
71.	Root cause of failure	
	Mixed grease lose bearing fit	
Assembly		
72.	MOTOR RPM	



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11. **GOVERNING LAW AND JURISDICTION.** Any controversy arising out of any quotation, the purchase order, the goods sold or delivered, repair or replacement thereof, or any services provided pursuant to any quotation or any purchase order, or these Standard Terms and Conditions shall be governed by the laws of the state of Tennessee without regard to any choice of law provisions and any cause of action related in any manner thereto shall be brought only in the state or federal courts of Shelby County, Tennessee.
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