



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

LR Motor Shop Repairs

**Job Number 102833**

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: *YP2-160M-4*

**1.0**

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

## AC Inspection as Found

Welspun Tubular (11685)

9301 Frazier Pike  
Little Rock, AR 72206

FolderID: 102833  
FormID: 20174542

### AC Inspection - Rev. 2

Location: LR MOTORSHOP

Serial Number: YP2-160M-4

Description: 11KW

Hi-Speed Job Number: 102833

Serial Number: YP2-160M-4

HP/kW: 11 (kW)

Priorities Found: ● 5 - 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
5. Distance from the end of the shaft to the Coupling/Sheave

#### Initial Mechanical/Electrical


6. Does Shaft Turn Freely?
7. Does the shaft require T.I.R in Lathe to identify additional repairs?
8. Does Shaft Have Visible Damage?
9. Assembled Shaft Runout
10. Assembled Shaft End Play
11. Air Gap Variation <10%

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|  |             |                 |
|--|-------------|-----------------|
| 12. Lead Condition                                   |             |                 |
| 13. Lead Length                                      |             |                 |
| 14. Does it have Lugs?, If so what is the Stud Size? |             |                 |
| 15. Lead Numbers                                     |             |                 |
| 16. Stator Temperature Detector Rating and Function  |             |                 |
| Quantity   | Rating      | Quantity Passed |
|  |             |                 |
| 17. Bearing Temperature Detector Rating and Function |             |                 |
| Quantity   | Rating      | Quantity Passed |
|  |             |                 |
| 18. Frame Condition                                  |             |                 |
| 19. Fan Condition                                    |             |                 |
| 20. Heater Quantity, Ratings                         |             |                 |
| Quantity   | Volts/Watts | Pass/Fail       |
|  |             |                 |
| 21. Broken or Missing Components                     |             |                 |
| Initial Electrical Inspection                        |             |                 |
| 22. Insulation Resistance/Megger                     |             | 2000 Megohms    |




|   |                    |                         |          |
|---|--------------------|-------------------------|----------|
| 23.   | Winding Resistance |                         |          |
|   | 1-2                | 1-3                     | 2-3      |
|   | .693               | .693                    | .693     |
|  | 24.                | Perform Surge Test      | (P) Pass |
|   | 25.                | Number of Stator Slots  | 24       |
|   | 26.                | Stator Condition        | good     |
|   | 27.                | Stator Thermistors/Ohms | none     |
|   | 28.                | Stator Overloads/Ohms   | none     |
| Mechanical Inspection   |                    |                         |          |


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|  |                            |             |
|--|----------------------------|-------------|
| 30. Drive End Bearing Number-  | 6308                       |             |
| 31. Drive End Bearing Qty.   | 1                          |             |
| 32. Drive End Bearing Type   | (Ball) Ball Bearing        |             |
| 33. Drive End Lubrication Type                                       | (Grease) Grease Lubricated |             |
| 34. Drive End Bearing Insulation or Grounding Device?                | none                       |             |
| 35. Drive End Wavy Washer/Snap-Ring Other Retention Device?          | none                       |             |
| 36. Drive End Bearing Condition                                      | ok                         |             |
| 37. Opposite Drive End Bearing Brand                                 | SKF                        |             |
| 38. Opposite Drive End Bearing Number-                               | 6206                       |             |
| 39. Opposite Drive End Bearing Qty.                                  | 6206                       |             |
| 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?       | none                       |             |
| 43. Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device? | none                       |             |
| 44. Opposite Drive End Bearing Condition                             | ok                         |             |
| 45. Drive End Seal   | none                       |             |
| 46. Opposite Drive End Seal  | none                       |             |
| 47. DE Sleeve Bearing Inside Diameter                                |                            |             |
| 0 degrees  | 120 degrees                | 240 degrees |
| 0  | 0                          | 0           |
| 48. DE Sleeve Bearing Outside Diameter                               |                            |             |
| 0 degrees  | 120 degrees                | 240 degrees |
| 0  | 0                          | 0           |
| 49. DE Sleeve Bearing Housing Inside Diameter                        |                            |             |
| 0 degrees  | 120 degrees                | 240 degrees |
| 0  | 0                          | 0           |
| 50. DE Sleeve Bearing to Housing Clearance                           |                            |             |
| 0 degrees  | 120 degrees                | 240 degrees |
| 51. ODE Sleeve Bearing Inside Diameter                               |                            |             |
| 0 degrees  | 120 degrees                | 240 degrees |
| 0  | 0                          | 0           |

|   |   |                             |                            |
|---|---|-----------------------------|----------------------------|
| 52. ODE Sleeve Bearing Outside Diameter   | 0 degrees   | 120 degrees                 | 240 degrees                |
| 53. ODE Sleeve Bearing Housing Inside Diameter                                    | 0 degrees   | 120 degrees                 | 240 degrees                |
|   | 0   | 0                           | 0                          |
| 54. ODE Sleeve Bearing to Housing Clearance                                       | 0 degrees   | 120 degrees                 | 240 degrees                |
|   | 0   | 0                           | 0                          |
| <b>Rotor Inspection</b>   |   |                             |                            |
| 55. Rotor Type/Material   | (Squirrel Aluminum) Squirrel Cage Aluminum Die Cast |                             |                            |
| 56. Growler Test  | (Pass) Pass   |                             |                            |
| 57. Number of Rotor Bars  | 44  |                             |                            |
| 58. Rotor Condition   | ok  |                             |                            |
| 59. List the Parts needed for the Repair Below                                    | 6308 6306, mech seal.                               |                             |                            |
| 60. Signature of Technician that Disassembled Motor                               | David Maclin  |                             |                            |
|  |   |                             |                            |
| <b>Mechanical Fits- Rotor</b>   |   |                             |                            |
| 61. Shaft Runout  | 0 inches  |                             |                            |
| 62. Rotor Runout  | Drive End Bearing Fit                               | Rotor Body                  | Opposite Drive End Bearing |
|   | 0   | 0                           | 0                          |
| 63. Coupling Fit Closest to Bearing Housing                                       | 0 Degrees   | 90 Degrees                  | 120 Degrees                |
|   | 0   | 0                           | 0                          |
| 64. Coupling Fit Closest to the end of the Shaft                                  | 0 Degrees   | 60 Degrees                  | 120 Degrees                |
|   | 0   | 0                           | 0                          |
| 65. Drive End Bearing Shaft Fit   | 0 Degrees   | 60 Degrees                  | 120 Degrees                |
|   | 1.575   | 1.575                       | 1.575                      |
| 66. Drive End Bearing Shaft Fit Condition   | (P) Pass  |                             |                            |
| 67. Opposite Drive End Bearing Shaft Fit  | 0 Degrees   | 60 Degrees                  | 120 Degrees                |
|   | 1.1815  | 1.1815                      | 1.1814                     |
| 68. Opposite Drive End Bearing Shaft Fit Condition                                | (P) Pass  |                             |                            |
| 69. Shaft Air Seal Fits   | Drive End Air Seal                                  | Opposite Drive End Air Seal |                            |
|   | ok  | ok                          |                            |
| <b>Mechanical Fits- Bearing Housings</b>  |   |                             |                            |



|   |                                |              |
|---|--------------------------------|--------------|
| 70. Drive End - Endbell Bearing Fit   |                                |              |
| 0 Degrees   | 60 Degrees                     | 120 Degrees  |
| 3.544   | 3.544                          | 3.544        |
| 71. Drive End - Endbell Bearing Fit Condition                                     |                                | (P) Pass     |
| 72. Opposite Drive End - Endbell Bearing Fit                                      |                                |              |
| 0 Degrees   | 60 Degrees                     | 120 Degrees  |
| 2.835   | 2.8351                         | 2.8351       |
| 73. Opposite Drive End - Endbell Bearing Fit Condition                            |                                | (P) Pass     |
| 74. Bearing Cap Condition   |                                |              |
| Drive End Bearing Cap   | Opposite Drive End Bearing Cap |              |
| ok  | ok                             |              |
| 75. End Bell Air Seal Fits  |                                |              |
| Drive End Air Seal  | Opposite Drive End Air Seal    |              |
| ok  | ok                             |              |
| 76. List Machine Work Needed Below  |                                |              |
| None  |                                |              |
| 77. Technician  |                                | David Maclin |
|  |                                |              |
| <b>Root Cause of Failure</b>  |                                |              |
| 78. Failure locations   |                                |              |
| Seal  |                                |              |
| 79. Root cause of failure   |                                |              |
| Seal  |                                |              |
| <b>Dynamic Balance Report</b>   |                                |              |
| 80. Rotor Weight and Balance Grade  |                                |              |
| Rotor Weight  | Balance Grade                  |              |
| 81. Initial Balance Readings  |                                |              |
| Drive End   | Opposite Drive End             |              |
| 82. Final Balance Readings  |                                |              |
| Drive End   | Opposite Drive End             |              |
| 83. Technician  |                                |              |
| <b>Rewind</b>   |                                |              |
| 84. Core Test Results - Watts loss per Pound                                      |                                |              |
| Pre-Burnout   | Post Burnout                   |              |
| 85. Core Hot Spot Test  |                                |              |
| Pre-Burnout   | Post-Burnout                   |              |
| 86. Post Rewind Electrical Test- Insulation Resistance                            |                                |              |
| 87. Post Rewind Polarization Index  |                                |              |

|  |                                |                            |
|--|--------------------------------|----------------------------|
| 88. Post Rewind Winding Resistance                           |                                |                            |
| 1-2  | 1-3                            | 2-3                        |
| 89. Post Rewind Surge Test                                   |                                |                            |
| 90. Post Rewind Hi-Pot                                       |                                |                            |
| 91. Technician   |                                |                            |
| <b>Mechanical Fits- Rotor - Post Repair</b>                  |                                |                            |
| 92. Shaft Runout Post Repair                                 |                                |                            |
| 93. Rotor Runout Post Repair                                 |                                |                            |
| Drive End Bearing Fit  | Rotor Body                     | Opposite Drive End Bearing |
| 94. Coupling Fit Closest to Bearing Housing Post Repair      |                                |                            |
| 0 Degrees  | 90 Degrees                     | 120 Degrees                |
| 95. Coupling Fit Closest to the end of the Shaft Post Repair |                                |                            |
| 0 Degrees  | 60 Degrees                     | 120 Degrees                |
| 96. Drive End Bearing Shaft Fit Post Repair                  |                                |                            |
| 0 Degrees  | 60 Degrees                     | 120 Degrees                |
| 97. Opposite Drive End Bearing Shaft Fit Post Repair         |                                |                            |
| 0 Degrees  | 60 Degrees                     | 120 Degrees                |
| 98. Shaft Air Seal Fits Post Repair                          |                                |                            |
| Drive End Air Seal   | Opposite Drive End Air Seal    |                            |
| 99. Shaft Repair Sign-off                                    |                                |                            |
| <b>Mechanical Fits- Bearing Housings - Post Repair</b>       |                                |                            |
| 100. Drive End - Endbell Bearing Fit Post Repair             |                                |                            |
| 0 Degrees  | 60 Degrees                     | 120 Degrees                |
| 101. Opposite Drive End - Endbell Bearing Fit Post Repair    |                                |                            |
| 0 Degrees  | 60 Degrees                     | 120 Degrees                |
| 102. Bearing Cap Condition Post Repair                       |                                |                            |
| Drive End Bearing Cap  | Opposite Drive End Bearing Cap |                            |
| 103. End Bell Air Seal Fits Post Repair                      |                                |                            |
| Drive End Air Seal   | Opposite Drive End Air Seal    |                            |
| 104. DE Sleeve Bearing Inside ID Post Repair                 |                                |                            |
| Measure 1  | Measure 2                      | Measure 3                  |
| 105. DE Sleeve Bearing Outside ID Post Repair                |                                |                            |
| Measure 1  | Measure 2                      | Measure 3                  |
| 106. DE Sleeve Bearing Inside OD Post Repair                 |                                |                            |
| Measure 1  | Measure 2                      | Measure 3                  |

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|  |            |            |
|--|------------|------------|
| 107. DE Sleeve Bearing Outside OD Post Repair                  |            |            |
| Measure 1  | Measure 2  | Measure 3  |
| 108. End Bell Repair Sign-off                                  |            |            |
| 109. ODE Sleeve Bearing Inside ID Post Repair                  |            |            |
| Measure 1  | Measure 2  | Measure 3  |
| 110. ODE Sleeve Bearing Outside ID Post Repair                 |            |            |
| Measure 1  | Measure 2  | Measure 3  |
| 111. ODE Sleeve Bearing Inside OD Post Repair                  |            |            |
| Measure 1  | Measure 2  | Measure 3  |
| 112. ODE Sleeve Bearing Outside OD Post Repair                 |            |            |
| Measure 1  | Measure 2  | Measure 3  |
| <b>Assembly</b>  |            |            |
| 113. QC Check All Parts for Cleanliness Prior to Assembly      |            |            |
| 114. Photograph All Major Components prior to assembly         |            |            |
| 115. Final Insulation Resistance Test                          |            |            |
| 116. Assembled Shaft Endplay                                   |            |            |
| 117. Assembled Shaft Runout                                    |            |            |
| 118. Test Run Voltage  |            |            |
| Volts  | Volts      | Volts      |
| 119. Test Run Amperage   |            |            |
| Amps   | Amps       | Amps       |
| 120. Drive End Vibration Readings - Inches Per Second          |            |            |
| Horizontal   | Vertical   | Axial      |
| 121. Opposite Drive End Vibration Readings - Inches Per Second |            |            |
| Horizontal   | Vertical   | Axial      |
| 122. Ambient Temperature - Fahrenheit                          |            |            |
| 123. Drive End Bearing Temps - Fahrenheit                      |            |            |
| 5 Minutes  | 10 Minutes | 15 Minutes |
| 124. Drive End Bearing Temps - Fahrenheit 20-30 Minutes        |            |            |
| 20 Minutes   | 25 Minutes | 30 Minutes |
| 125. Drive End Bearing Temps - Fahrenheit 35-45 Minutes        |            |            |
| 35 Minutes   | 40 Minutes | 45 Minutes |
| 126. Drive End Bearing Temps - Fahrenheit 50-60 Minutes        |            |            |
| 50 Minutes   | 55 Minutes | 60 Minutes |

|  |            |            |
|--|------------|------------|
| 127. Opposite Drive End Bearing Temps - Fahrenheit               |            |            |
| 5 Minutes  | 10 Minutes | 15 Minutes |
| 128. Opposite Drive End Bearing Temps - Fahrenheit 20-30 Minutes |            |            |
| 20 Minutes   | 25 Minutes | 30 Minutes |
| 129. Opposite Drive End Bearing Temps - Fahrenheit 35-45 Minutes |            |            |
| 35 Minutes   | 40 Minutes | 45 Minutes |
| 130. Opposite Drive End Bearing Temps - Fahrenheit 50-60 Minutes |            |            |
| 50 Minutes   | 55 Minutes | 60 Minutes |
| 131. Stator Temperatures- Fahrenheit                             |            |            |
| 5 Minutes  | 10 Minutes | 15 Minutes |
| 132. Stator Temperatures- Fahrenheit 20-30 Minutes               |            |            |
| 20 Minutes   | 25 Minutes | 30 Minutes |
| 133. Stator Temperatures- Fahrenheit 35-45 Minutes               |            |            |
| 35 Minutes   | 40 Minutes | 45 Minutes |
| 134. Stator Temperatures- Fahrenheit 50-60 Minutes               |            |            |
| 50 Minutes   | 55 Minutes | 60 Minutes |
| 135. Document Final Condition with Pictures after paint          |            |            |
| 136. Final Pics and QC Review                                    |            |            |



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5. **DELIVERY OF GOODS AND/OR SERVICES.** 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.
6. **DELIVERY SITE AND TIME FOR PERFORMANCE.** Hi-Speed and Buyer agree that time is of the essence for the purchase order and that Buyer shall fully cooperate with Hi-Speed in order to allow Hi-Speed full access to prosecute its work diligently and in an orderly manner. Buyer shall assist Hi-Speed in every way possible to avoid delaying, disrupting or interfering with the progress of Hi-Speed's work at the project site. In the event Hi-Speed's work is delayed, hindered, suspended, disrupted, re-sequenced or interfered with or rendered less efficient or more costly or adversely affected in any way as a result of acts or omissions of Buyer or other contractors or employees of Buyer or by any other reason beyond Hi-Speed's control and without the fault of Hi-Speed, then, in such event, Buyer shall be liable to Hi-Speed for any damages, additional costs, expenses, labor, materials, man hours, acceleration costs, overtime, additional jobsite overhead, extended home office overhead, and any and all other direct and indirect expenses of whatsoever nature or kind, caused in whole or in part, as a result of any of the above-referenced occurrences. Hi-Speed's project records will be the basis for computing the additional costs and damages of Hi-Speed's labor, materials, expenses and overhead related to such changes. BUYER WARRANTS THAT THE SITE FOR DELIVERY OR INSTALLATION OF ANY GOODS AND/OR FOR THE PERFORMANCE OF ANY SERVICES SHALL BE READY AND ADEQUATE FOR HI-SPEED'S DELIVERY OF GOODS AND/OR PERFORMANCE OF SERVICES AND THAT HI-SPEED SHALL HAVE FULL ACCESS THERETO, FREE OF ALL OBSTRUCTIONS. BUYER SHALL ASSUME ALL EXTRA COSTS ASSOCIATED WITH HI-SPEED'S INABILITY TO INSTALL ANY GOODS OR PERFORM ANY SERVICES AS A RESULT OF BUYER'S FAILURE TO COMPLY WITH THIS PROVISION. HI-SPEED MAY NOT INSPECT THE SITE PRIOR TO DELIVERY AND/OR INSTALLATION OF GOODS AND/OR PERFORMANCE OF SERVICES AND MAKES NO WARRANTY AS TO THE SUFFICIENCY OF THE SITE FOR THE DELIVERY AND/OR INSTALLATION OF GOODS AND/OR THE PERFORMANCE OF SERVICES AT SUCH SITE.
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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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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.
12. **ABANDONED EQUIPMENT.** Hi-Speed requires that Buyer promptly pick up or provide shipment instructions for Buyer equipment or other Buyer property in Hi-Speed's possession. If equipment or other Buyer property is left with Hi-Speed and not picked up within six (6) months after Hi-Speed's final action related to the applicable property (e.g. evaluation, teardown, estimate, completion of services), Hi-Speed will consider such property abandoned and may dispose of it in accordance with applicable law. Buyer agrees to hold Hi-Speed harmless for any damage or claim for such abandoned property and acknowledges that Hi-Speed may discard or recycle it at Hi-Speed's sole and absolute discretion. Specifically, Hi-Speed may sell Buyer's abandoned property at a private or public sale and retain the proceeds to offset Hi-Speed's storage, inspection and servicing costs. For the avoidance of doubt, Hi-Speed reserves its statutory and other lawful liens for unpaid charges related to abandoned property.
13. **FORCE MAJEURE.** Neither party shall be responsible for any delay or failure in performance of any party of the quotation, purchase order or these Standard Terms and Conditions to the extent that such delays or failures are caused by fire, flood, earthquake, explosion, war, embargo, government requirement, civil or military authority, acts of God, or any other circumstances beyond its reasonable control and not involving any fault or negligence on the party affected ("Condition"). If any such Condition occurs, the party delayed or unable to perform shall promptly give written notice to the other party and, if such Condition remains at the end of thirty (30) days, the party affected by the other party's delay and inability to perform may elect to (i) terminate such order or part thereof, or (ii) suspend the order for the duration of the Condition, if the Buyer is the suspending party, buy elsewhere comparable material to be sold under the order and apply to any commitment the purchase price of such purchase, and resume performance of the order once the Condition ceases, with an option in the affected party to extend the period of this order up to the length of the time the Condition endures.
14. **NONWAIVER.** No course of dealing or failure of either party to strictly enforce any term, right, or condition of these Standard Terms and Conditions will be construed as a waiver of such term, right or condition. Any waiver by Hi-Speed will only be in writing and will waive no succeeding breach of a term, right or condition.
15. **ASSIGNMENT.** The rights and obligations of the parties shall neither be assigned nor delegated without the prior written consent of the other party. However, any party may assign or delegate its respective rights and obligations, in whole or in part, (i) to any subsidiary, (ii) pursuant to other financing, merger or reorganization or (iii) pursuant to any sale or transfer of substantially all of the assets of the assigning party. These Standard Terms and Conditions shall bind the heirs, successors and assigns of the parties hereto.
16. **NO INDIVIDUAL LIABILITY.** Notwithstanding any other agreement to the contrary, the Buyer agrees that in no event will the Buyer hold and Hi-Speed owner, director, officer or employee personally liable for unintentional tortious conduct or conduct that constitutes the breach of any contract between Hi-Speed and the Buyer, even if the Hi-Speed owner, director, officer or employee is or could be construed to be a party to such contract.