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# **Motor Shop Repairs**

## **Job Number 98136**

Prepared for Welspun Tubular (11685)

9301 Frazier Pike Little Rock AR 72206

## **Table of Contents**



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### **AC Recondition Repair Report**

Welspun Tubular (11685)

9301 Frazier Pike Little Rock, AR 72206

Priorities Found: **2 - High** 

15 - Good

General		
1.	Job Number	98136
2.	Report Date	4/22/2021
3.	Customer	

#### **Name Plate Information**

Manufacturer



















5.	Model	
6.	Serial Number	
7.	Horsepower	
8.	KW	22
9.	Volts	
10.	Amps	
11.	RPM	
12.	Frame	
13.	Enclosure	TEFC
14.	Cycles	

15. Phase       3         16. Service Factor       1.15         17. Motor Mount Position       Initial Inspection         18. Number of Leads       9         19. Lead Length       20. Lead Size         21. Lead Condition       (F) Fail         22. Lead Markings       23. Lug Size, Condition, and Type         24. Winding RtD's       25. Winding Rtd's Condition         25. Shaft Run Out       27. Does Shaft Tum Freely       yes         28. Does Shaft Have Visible Damage       no         29. Bearing Rtd's       30. Bearing Rtd's Condition         31. Contamination       (P) Pass         32. Frame Condition       (RA) Not Applicable         34. Broken or missing components Brake, fan, and fan cover are missing         Initial Electric Test       35. Resistance to Ground         36. Winding Resistance 1-2       37. Winding Resistance 1-2         37. Winding Resistance 1-3       39. Resistive Imbalance         40. Hi-Pot       (F) Fail			
Initial Inspection           18. Number of Leads         9           19. Lead Length	15.	Phase	3
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18. Number of Leads         9           19. Lead Length         Condition           21. Lead Condition         (F) Fail           22. Lead Markings         Fail           23. Lug Size, Condition, and Type         Size, Condition           24. Winding RTD's         Size, Condition           25. Winding Rtd's Condition         Shaft Run Out           27. Does Shaft Turn Freely         yes           28. Does Shaft Have Visible Damage         no           29. Bearing Rtd's         no           30. Bearing Rtd's Condition         (P) Pass           31. Contamination         (P) Pass           32. Frame Condition         (NA) Not Applicable           34. Broken or missing components Brake, fan, and fan cover are missing         (NA) Not Applicable           35. Resistance to Ground         Size Resistance to Ground           36. Winding Resistance 1-2         Winding Resistance 1-3           37. Winding Resistance 2-3         Winding Resistance 1-3           39. Resistive Imbalance         Hi-Pot	17.	Motor Mount Position	
19. Lead Length 20. Lead Size 21. Lead Condition (F) Fail 22. Lead Markings 23. Lug Size, Condition, and Type 24. Winding RTD's 25. Winding Rtd's Condition 26. Shaft Run Out 27. Does Shaft Turn Freely yes 28. Does Shaft Have Visible Damage no 29. Bearing Rtd's 30. Bearing Rtd's 30. Bearing Rtd's 31. Contamination 31. Contamination 32. Frame Condition 33. Fan Condition 34. Broken or missing components Brake, fan, and fan cover are missing  Initial Electric Test 35. Resistance to Ground 36. Winding Resistance 1-2 37. Winding Resistance 1-3 38. Winding Resistance 1-3 39. Resistive Imbalance 40. Hi-Pot	Initial	Inspection	
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<ul> <li>37. Winding Resistance 2-3</li> <li>38. Winding Resistance 1-3</li> <li>39. Resistive Imbalance</li> <li>40. Hi-Pot</li> </ul>	35.	Resistance to Ground	
<ul><li>38. Winding Resistance 1-3</li><li>39. Resistive Imbalance</li><li>40. Hi-Pot</li></ul>	36.	Winding Resistance 1-2	
<ul><li>39. Resistive Imbalance</li><li>40. Hi-Pot</li></ul>	37.	Winding Resistance 2-3	
40. Hi-Pot	38.	Winding Resistance 1-3	
171 111 121	39.	Resistive Imbalance	
41. Surge Test     (F) Fail	40.	Hi-Pot	
	<b>4</b> 1.	Surge Test	(F) Fail



42.	Stator Condition	
43.	Failure Location	windings
Initial I	Rotor Inspection	
44.	Rotor Type	cast aluminum

	45.	Air Gap <10% Variation	
	46.	Number of Rotor Bars	
	47.	Number of Broken Rotor Bars	0
	48.	Growler Test	(P) Pass
	49.	Rotor Condition	(P) Pass
N	lecha	anical Inspection	
	50.	Bearing Manufacture	fag



51. Bearing DE Size	6211
52. Bearing DE Type	ball
53. DE Bearing Qty.	1



54. Bearing ODE Size	6209
55. Bearing ODE Type	ball



57	7. Insulated Bearing	
58	8. Lubrication Type	grease
<b>5</b> 9	9. Grease Condition	(P) Pass
<b>6</b> 0	0. Bearing Retainers	(Y) Yes



61.	Shaft Grounding Device	
<b>6</b> 2.	DE Seal	(Y) Yes
63.	DE Seal Type/Size	
<b>6</b> 4.	ODE Seal	(Y) Yes
65.	ODE Seal Type/Size	
Root	Cause of Failure	
66.	Component Failure	windings
67.	Cause of Failure	
	Coil to coil short	
68.	Comments	
	Recommend rewind and new bearings	
69.	Service Technician	
Machi	ne Fit Inspection Report	
70.	Shaft Run Out	
71.	Initial Shaft Run Out	
72.	Final Shaft Run Out	
<b>7</b> 3.	DE Bearing Shaft Fit	(P) Pass

7	74.	DE Initial Shaft Bearing Fit Size 1	2.166 "
7	75.	DE Initial Shaft Bearing Fit Size 2	2.166 "
7	76.	DE Initial Shaft Bearing Fit Size 3	2.1659 "
7	77.	DE Finial Shaft Bearing Fit Size 1	
7	78.	DE Finial Shaft Bearing Fit Size 2	
7		DE Finial Shaft Bearing Fit Size 3	
3		ODE Bearing Shaft Fit	(P) Pass
_		ODE Initial Shaft Bearing Fit Size 1	1.7722 "
		ODE Initial Shaft Bearing Fit Size 2	1.7721 "
		ODE Initial Shaft Bearing Fit Size 3	1.7721 "
		ODE Finial Shaft Bearing Fit Size 1	1.7721
		ODE Finial Shaft Bearing Fit Size 2	
		·	
		ODE Finial Shaft Bearing Fit Size 3	
		DE Air Seal Shaft Fit	
		DE Initial Air Seal Shaft Size	
		DE Final Air Seal Shaft Size	
		ODE Air Seal Shaft Fit	
		ODE Initial Air Seal Shaft Size	
ξ		ODE Final Air Seal Shaft Size	
9	93.	DE Endbell Fit	(P) Pass
(	94.	DE Initial Endbell Fit Size 1	3.9379 "
ç	95.	DE Initial Endbell Fit Size 2	3.9377 "
Ş	96.	DE Initial Endbell Fit Size 3	3.9379 "
ξ	97.	DE Final Endbell Fit Size 1	
Ç	98.	DE Finial Endbell Fit Size 2	
ç	99.	DE Final Endbell Fit Size 3	
1	00.	DE Endbell Fit Insulated	
1	01.	DE Endbell Air Seal Fit	
1	02.	Initial Endbell Air Seal Fit Size	
1	03.	Finial Endbell Air Seal Fit Size	
1	04.	ODE Endbell Fit	(P) Pass
_		ODE Initial Endbell Fit Size 1	3.3474 "
1	06	ODE Initial Endbell Fit Size 2	3.3472 "
		ODE Initial Endoell Fit Size 3	3.3473 "
		ODE Final Endbell Fit Size 1	515 11 9
		ODE Final Endbell Fit Size 2	
		ODE Final Endbell Fit Size 3	
		ODE Endbell Fit Insulated	
		ODE Endbell Air Seal Fit	
		ODE Initial Endbell Seal Fit Size	
		ODE Finial Endbell Seal Fit Size	
		Foot Flatness	(NA) Not Applicable
_			(NA) Not Applicable
_		Floor Condition	(NA) Not Applicable
		Flange Condition	(P) Pass
		Service Technician	
		cing Report	
1	19.	Balance Type	

120	Balance Operating Speed
	Start Left End
	Start Right End
	Balancing Specification
	Finish Left End
	Finish Right End
	Service Technician
	nbly and Final Test
	Meggar Testing Reading
	Surge Test
	Hi-Pot
	Winding Resistance 1-2
	Winding Resistance 2-3
	Winding Resistance 1-3
	Test Run Voltage Phase A
	Test Run Amps A
	Test Run Voltage Phase B
	Test Run Amps B
	Test Run Voltage Phase C
	Test Run Amps C
	DE Horizontal Vibration Reading
	DE Vertical Vibration Reading
	DE Axial Vibration Reading
	ODE Horizontal Vibration Reading
	ODE Vertical Vibration Reading
	ODE Axial Vibration Reading
	Ambient Temp at start of Test Run
	Temp at 5 minutes
	Temp at 10 minutes
	Temp at 15 minutes
	Temp at 20 minutes
	Temp at 25 minutes
	Temp at 30 minutes
	Temp at 35 minutes
	Temp at 40 minutes
	Temp at 45 minutes
	Temp at 50 minutes
	Temp at 55 minutes
	Temp at 60 minutes
	Motor Paint
	Service Technician

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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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- 7. INSPECTION/ACCEPTANCE. All goods and services ordered pursuant to any quotation shall be subject to inspection by Buyer after delivery or performance to determine conformity with the quotation and/or purchase order and Hi-Speed's advertised or published specifications. Buyer shall have a period of thirty (30) days from shipment of goods at the delivery destination specified in the quotation within which to inspect the goods for conformity with the quotation, order and/or Hi-Speed's advertised and published specifications and to provide Hi-Speed with written notice of any discrepancy or rejection. Buyer shall have a period of thirty (30) days following completion of any services within which to inspect the services for conformity with the quotation, purchase order and/or Hi-Speed's advertised and published specifications and to provide Hi-Speed with written notice of any discrepancy or rejection. If the goods delivered or services performed do not so conform, upon delivery of notice to Hi-Speed of any discrepancy, nonconformance or rejection, Hi-Speed shall have sixty (60) days to cure the alleged discrepancy and/or nonconformance. If Hi-Speed fails to cure in this time period, Buyer shall have the right to reject such goods or services. After the cure period, goods that have been delivered and rejected, in whole or in part, shall be returned to Hi-Speed. Buyer shall notify Hi-Speed and arrange for the return of the goods as required. Should such non-conforming services be rejected Hi-Speed shall, at its sole cost, re-perform the non-conforming services. Inspection or failure to inspect on any occasion shall not affect Buyer's rights under the warranty provisions herein.
- 8. <u>WARRANTIES.</u> 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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- 9. <u>LIMITATION OF DAMAGES.</u> HI-SPEED SHALL HAVE NO LIABILITY TO BUYER WITH RESPECT TO THE SALE OR DELIVERY OF ANY GOODS OR THE REPAIR THEREOF OR WITH RESPECT TO THE SALE OR PERFORMANCE OF ANY SERVICES, FOR LOST PROFITS, SPECIAL, CONSEQUENTIAL, EXEMPLARY, PUNITIVE OR INCIDENTAL DAMAGES OF ANY KIND OR NATURE WHETHER ARISING IN CONTRACT, TORT, GOODS LIABILITY OR OTHERWISE, EVEN IF HI-SPEED WAS ADVISED OF THE POSSIBILITY OF SUCH LOSS OR DAMAGES. HI-SPEED SHALL NOT BE LIABLE FOR ANY DAMAGES OR DELAYS CAUSED BY ANY FAILURE TO MAKE ANY DELIVERY OF GOODS BY ANY EXPECTED TIME OR DATE OR THE FAILURE TO PROVIDE OR COMPLETE ANY SERVICES BY ANY EXPECTED DATE OR TIME. IN NO EVENT SHALL HI-SPEED BE LIABLE TO BUYER FOR ANY DAMAGES WHATSOEVER IN EXCESS OF THE TOTAL PRICE PAID FOR ALL GOODS AND/OR SERVICES HEREUNDER OR REFERENCED IN ANY QUOTATION OR THE PURCHASE ORDER.
- 10. <u>SEVERABILITY.</u> The partial or complete invalidity of any provision of these Standard Terms and Conditions shall not affect the enforceability of the remainder of these Standard Terms and Conditions. If any provision is found to be invalid or unenforceable, that portion shall be modified to make it enforceable or shall be stricken and the remainder of these Standard Terms and Conditions shall enforced.
- 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, earth quake, 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. <u>NONWAIVER.</u> 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.