

LR Motor Shop Repairs

Job Number 102599

Prepared for LITTLE ROCK ZOO

1 ZOO DRIVE LITTLE ROCK AR 72205

Table of Contents

AC Inspection as Found - LR Motor Shop

AC Inspection - Rev. 2: F1004122359

1.0





AC Inspection as Found LITTLE ROCK ZOO

1 ZOO DRIVE **LITTLE ROCK, AR 72205**

FolderID: 102599 FormID: 19660829

AC II	nspec	tion -	Rev.	2
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Location: LR Motor Shop Serial Number: F1004122359 Description: 2HP 1170RPM BALDOR

Hi-Speed Job Number:	102599
Manufacturer:	Baldor
Spec/ID #:	06H086W421G3
Serial Number:	F1004122359
HP/kW:	2 (HP)
RPM:	1170 (RPM)
Frame:	184JM
Voltage:	208-230/460
Phase:	Three
Hz:	60 (Hz)
Service Factor:	1.15
Repair Stage:	Final

Priorities Found: 3 - High



7 - Good

Overall Condition

Report Date

Nameplate Picture



Photos of all six sides of the machine.

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Describe the Overall Condition of the Equipment as Received
 Impellor is loose on the shaft. Needs machined or replaced. Opposite drive end bell needs sleeved. Stator needs rewound.
 Need new 1.25 inch car/cer pump seal. Bowl needs ring machined.

	Need new 1.25 inch car/cer pump sea	nl. Bowl needs ring machined.		
5.	Distance from the end of the shaft to	o the Coupling/Sheave		
Initia	l Mechanical/Electrical			
6 .	Does Shaft Turn Freely?			(Yes) Yes
7 .	Does the shaft require T.I.R in Lath	e to identify additional repairs?		(No) No
8.	Does Shaft Have Visible Damage?			(No) No
9.	Assembled Shaft Runout			0.001 Inches
	Assembled Shaft End Play			
11.	Air Gap Variation <10%			
1 2.	Lead Condition			(P) Pass
13.	<u> </u>			8 Inches
1 4.		e Stud Size?		(No) No
15.				1-9
16.	Stator Temperature Detector Rating			
	Quantity	Rating	Quantity Passed	
-	Na			
17.	Bearing Temperature Detector Rati	ng and Function		
	Quantity	Rating	Quantity Passed	
-	Na			
18.				(5) 5
	Fan Condition			(P) Pass
20.	Heater Quantity, Ratings	V 10 000 00	D /F ::	
	Quantity	Volts/Watts	Pass/Fail	
-	Na			
21.	Broken or Missing Components			yes
-	Missing two bearing cap bolts			
Initia	l Electrical Inspection			
22.	Insulation Resistance/Megger			Megohms
23.	Winding Resistance			
	1-2	1-3	2-3	

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24.	Perform Surge Test		
25.	Number of Stator Slots		36
26.	Stator Condition		rewind
27.	Stator Thermistors/Ohms		
-	Na		
28.	Stator Overloads/Ohms		
-	Na		
Mecha	anical Inspection		
29.	Drive End Bearing Brand		fag
30.	Drive End Bearing Number-		6207 c3
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 Groun	nding Device?	
35.	Drive End Wavy Washer/Snap-Ring C	Other Retention Device?	bearing cap
36.	Drive End Bearing Condition		worn
37.	Opposite Drive End Bearing Brand		fag
38.	Opposite Drive End Bearing Number-		6205 c3
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	n or Grounding Device?	
43.			wavy washer
44.	Opposite Drive End Bearing Condition	1	worn
45.	Drive End Seal		
46.	Opposite Drive End Seal		
47.	DE Sleeve Bearing Inside Diameter		
	0 degrees	120 degrees	240 degrees
7	Na		
48.	3		
	0 degrees	120 degrees	240 degrees
_	Ma		
40	Na DE OL DE CITE DE COMPANIA		
49.	3		0.40
	0 degrees	120 degrees	240 degrees
-	Na		
50.		nce	
50.	0 degrees	120 degrees	240 degrees
	o deglees	120 degrees	240 ucgices
-	Na		
51.	ODE Sleeve Bearing Inside Diameter		
01.	J		
01.	0 degrees	120 degrees	240 degrees
31.	0 degrees	120 degrees	240 degrees

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F 2	ODE Slacus Pooring Outside Diamet	or	
52.	ODE Sleeve Bearing Outside Diamet		040 de meses
	0 degrees	120 degrees	240 degrees
-	Na		
53.	ODE Sleeve Bearing Housing Inside	Diameter	
	0 degrees	120 degrees	240 degrees
-	Na		
54.	ODE Sleeve Bearing to Housing Clea	rance	
	0 degrees	120 degrees	240 degrees
-	Na		
Roto	Inspection		
55.	Rotor Type/Material		(Squirrel Aluminum) Squirrel Cage Aluminum Die Cast
56.	Growler Test		(Pass) Pass
57.	Number of Rotor Bars		27
58.	Rotor Condition		
59.	List the Parts needed for the Repair E 6207 c3 6205 c3 Pump seal Rewind Machine work	Below	
Mech	anical Fits- Rotor		
	Shaft Runout		0.001 inches
62.			
	Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing
	Mo		
63.	Na Coupling Fit Closest to Bearing Hous	ing	
03.		•	120 Degrees
	0 Degrees 0.873500000000001	90 Degrees 0.873500000000001	0.873500000000001
61	Coupling Fit Closest to the end of the		0.07 33000000000000001
04.		60 Degrees	120 Dogroos
	0 Degrees 0.874	0.874	120 Degrees 0.874
65	Drive End Bearing Shaft Fit	0.014	0.074
05.	0 Degrees	60 Degrees	120 Dogroos
	1.3783	1.3783	120 Degrees 1.3783
86	Drive End Bearing Shaft Fit Condition		(P) Pass
	Opposite Drive End Bearing Shaft Fit		(F <i>)</i> Fa55
01.	0 Degrees	60 Degrees	120 Degrees
	0.9846	0.9846	0.9846
68.			(P) Pass
J 00.	Opposite Drive Life Dearling Stidit Fit	Outuition	(F) Fa33

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69	Shaft Air Seal Fits			
00.	Drive End Air Seal	Opposite Drive End Air Seal		
	Drive Life All Seal	Opposite Drive Life All Seal		
-	Na			
Mecha	anical Fits- Bearing Housings			
70.	Drive End - Endbell Bearing Fit			
	0 Degrees	60 Degrees	120 Degrees	
	2.8352	2.8352	2.8352	
1 71.	Drive End - Endbell Bearing Fit Condi	tion		(P) Pass
72.	Opposite Drive End - Endbell Bearing	Fit		
	0 Degrees	60 Degrees	120 Degrees	
	2.0483	2.0483	2.0483	
73.	Opposite Drive End - Endbell Bearing	Fit Condition		(F) Fail
-	Sleeve. Pitted			
74.	Bearing Cap Condition			
	Drive End Bearing Cap	Opposite Drive End Bearing Cap		
	pass			
75.	End Bell Air Seal Fits			
	Drive End Air Seal	Opposite Drive End Air Seal		
-	Pass			
76	List Machine Work Needed Below			
70.	LIST MACHINE WORK NEEDED DEIOW			
70.		nd broach impellor shaft fit. Turn down impello	r ring. Sleeve pump bowl ı	ring.
		nd broach impellor shaft fit. Turn down impello		ring. revor Hall
	Sleeve opposite drive endbell. Sleeve a	nd broach impellor shaft fit. Turn down impello		_
	Sleeve opposite drive endbell. Sleeve a	nd broach impellor shaft fit. Turn down impello		_
	Sleeve opposite drive endbell. Sleeve a	nd broach impellor shaft fit. Turn down impello		_
	Sleeve opposite drive endbell. Sleeve a	nd broach impellor shaft fit. Turn down impello		_
77.	Sleeve opposite drive endbell. Sleeve a	nd broach impellor shaft fit. Turn down impello		_
77.	Sleeve opposite drive endbell. Sleeve at Technician	nd broach impellor shaft fit. Turn down impello		_
77.	Sleeve opposite drive endbell. Sleeve at Technician Cause of Failure			_
77. Root (Technician Cause of Failure Failure locations			_
77. Root (Cause of Failure Failure locations Windings, pump seal, bearings, impellor			_
77. Root (Technician Cause of Failure Failure locations Windings, pump seal, bearings, impellor Root cause of failure			_
77. Root (78. 79.	Cause of Failure Failure locations Windings, pump seal, bearings, impellor Root cause of failure Improper installation.			_
77. Root (78. 79.	Cause of Failure Failure locations Windings, pump seal, bearings, impellor Root cause of failure Improper installation. mic Balance Report			_
77. Root (78. 79. Dynar 80.	Cause of Failure Failure locations Windings, pump seal, bearings, impellor Root cause of failure Improper installation. mic Balance Report Rotor Weight and Balance Grade Rotor Weight	or, pump bowl and endbell.		_
77. Root (78. 79. Dynar 80.	Cause of Failure Failure locations Windings, pump seal, bearings, impellor Root cause of failure Improper installation. mic Balance Report Rotor Weight and Balance Grade Rotor Weight Initial Balance Readings	or, pump bowl and endbell. Balance Grade		_
77. Root (78. 79. Dynar 80.	Cause of Failure Failure locations Windings, pump seal, bearings, impellor Root cause of failure Improper installation. mic Balance Report Rotor Weight and Balance Grade Rotor Weight	or, pump bowl and endbell.		_
77. Root (78. 79. Dynar 80.	Cause of Failure Failure locations Windings, pump seal, bearings, impellor Root cause of failure Improper installation. mic Balance Report Rotor Weight and Balance Grade Rotor Weight Initial Balance Readings	or, pump bowl and endbell. Balance Grade		_
77. Root (78. 79. Dynar 80.	Cause of Failure Failure locations Windings, pump seal, bearings, impellor Root cause of failure Improper installation. mic Balance Report Rotor Weight and Balance Grade Rotor Weight Initial Balance Readings Drive End	or, pump bowl and endbell. Balance Grade		_
77. Root (78. 79. Dynar 80. 81.	Cause of Failure Failure locations Windings, pump seal, bearings, impellor Root cause of failure Improper installation. mic Balance Report Rotor Weight and Balance Grade Rotor Weight Initial Balance Readings Drive End Final Balance Readings Drive End	Balance Grade Opposite Drive End		_
77. Root (78. 79. Dynar 80. 81.	Cause of Failure Failure locations Windings, pump seal, bearings, impellor Root cause of failure Improper installation. mic Balance Report Rotor Weight and Balance Grade Rotor Weight Initial Balance Readings Drive End Final Balance Readings Drive End Technician	Balance Grade Opposite Drive End		_

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84.	Core Test Results - Watts loss per Po	und	
	Pre-Burnout	Post Burnout	
85.	Core Hot Spot Test		
	Pre-Burnout	Post-Burnout	
86	Post Rewind Electrical Test- Insulation	n Resistance	
	Post Rewind Polarization Index	Tredistance	
	Post Rewind Winding Resistance		
	1-2	1-3	2-3
89.	Post Rewind Surge Test		
90.	Post Rewind Hi-Pot		
	Technician		
	anical Fits- Rotor - Post Repair		
	Shaft Runout Post Repair		
93.	Rotor Runout Post Repair	D . D .	0 5 . 5 . 5 .
	Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing
94.	Coupling Fit Closest to Bearing Housi	ng Post Repair	
0 11	0 Degrees	90 Degrees	120 Degrees
	0 2 0 g. 0 0 0	00 20g.000	.20 20g.000
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 Rep		400 D
	0 Degrees	60 Degrees	120 Degrees
97.	Opposite Drive End Bearing Shaft Fit	Post Repair	
	0 Degrees	60 Degrees	120 Degrees
	ū	G	ŭ
98.	Shaft Air Seal Fits Post Repair		
	Drive End Air Seal	Opposite Drive End Air Seal	
00	Shaft Repair Sign-off		
	anical Fits- Bearing Housings - P	act Panair	
	Drive End - Endbell Bearing Fit Post F	-	
100.	0 Degrees	60 Degrees	120 Degrees
	0 Degrees	00 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		
103.	Drive End Air Seal	Opposite Drive End Air Seal	
	Divo Elia / III Odai	Opposite Diffe Life All Ocal	

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104.	. DE Sleeve Bearing Inside ID Post Repair				
	Measure 1	Measure 2	Measure 3		
105.	DE Sleeve Bearing Outside ID Post Re				
	Measure 1	Measure 2	Measure 3		
106	DE Sleeve Bearing Inside OD Post Re	enair			
100.	Measure 1	Measure 2	Measure 3		
	Modelie 1	Wooding 2	Modedio o		
107.	DE Sleeve Bearing Outside OD Post F	Repair			
	Measure 1	Measure 2	Measure 3		
	End Bell Repair Sign-off				
109.	ODE Sleeve Bearing Inside ID Post Re	•			
	Measure 1	Measure 2	Measure 3		
110	ODE Sleeve Bearing Outside ID Post	Repair			
110.	Measure 1	Measure 2	Measure 3		
	Modelie 1	Wooding 2	Modedio o		
111.	ODE Sleeve Bearing Inside OD Post F	Repair			
	Measure 1	Measure 2	Measure 3		
112.	ODE Sleeve Bearing Outside OD Pos				
	Measure 1	Measure 2	Measure 3		
Assen	nbly				
	QC Check All Parts for Cleanliness Pr	ior to Assembly			
	Photograph All Major Components price	•			
	Final Insulation Resistance Test	,			
116.	Assembled Shaft Endplay				
117.	Assembled Shaft Runout				
118.	Test Run Voltage				
	Volts	Volts	Volts		
4.45	T 15				
119.	Test Run Amperage	A	0.000		
	Amps	Amps	Amps		
120.	Drive End Vibration Readings - Inches	Per Second			
	Horizontal	Vertical	Axial		
121.	Opposite Drive End Vibration Reading	s - Inches Per Second			
	Horizontal	Vertical	Axial		
400	Ambient Tenerareture 5 1 1 2				
	Ambient Temperature - Fahrenheit	*			
123.	Drive End Bearing Temps - Fahrenhei		15 Minutos		
	5 Minutes	10 Minutes	15 Minutes		

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124.	Drive End Bearing Temps - Fahrenhe	t 20-30 Minutes	
	20 Minutes	25 Minutes	30 Minutes
125	Drive End Bearing Temps - Fahrenhei	it 35-45 Minutes	
120.	35 Minutes	40 Minutes	45 Minutes
126.	Drive End Bearing Temps - Fahrenhe		
	50 Minutes	55 Minutes	60 Minutes
127.	Opposite Drive End Bearing Temps -	Fahrenheit	
	5 Minutes	10 Minutes	15 Minutes
400	0 5 . 5 . 5	5 1 1 2 00 00 M2 1	
128.	Opposite Drive End Bearing Temps - 20 Minutes	25 Minutes	30 Minutes
	20 Millutes	25 Millutes	30 Millutes
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 20-3	0 Minutes	
	20 Minutes	25 Minutes	30 Minutes
400	0 T		
133.	Stator Temperatures- Fahrenheit 35-4		45 Minutes
	35 Minutes	40 Minutes	45 Minutes
134.	Stator Temperatures- Fahrenheit 50-6	0 Minutes	
	50 Minutes	55 Minutes	60 Minutes
125	Document Final Condition with Picture	ne after point	
	Final Pics and QC Review	s alter parrit	
130.	I IIIAI I IOS AIIU QO NEVIEW		

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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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- 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. <u>ASSIGNMENT.</u> 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.