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# **Motor Shop Repairs**

## **Job Number 97522**

Prepared for Hillcrest Camshaft

5502 West 65th Str Little Rock AR

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FolderID: 97522 FormID: 9245944



### **AC Recondition Repair Report**

**Hillcrest Camshaft** 

5502 West 65th Str Little Rock, AR

Priorities Found: 4 - High 8 - Good				
General				
1.	Job Number	97522		
2.	Report Date			
3.	Customer	HILLCREST CAMSHAFT		
Name	Plate Information		0	
4.	Manufacturer	BALDOR	P5	
5.	Model			
6.	Serial Number	F1309246780		
7.	Horsepower	20		
8.	KW			
9.	Volts	230460		
10.	Amps			
11.	RPM			
12.	Frame			
13.	Enclosure			
14.	Cycles			
15.	Phase			
16.	Service Factor			
17.	Motor Mount Position			
Initial	Inspection		0	
18.	Number of Leads	3		
19.	Lead Length	10 Inches		
20.	Lead Size			
<b>2</b> 1.	Lead Condition	(P) Pass	P42	
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			
	Bearing Rtd's			
30.	Bearing Rtd's Condition			
31.	Contamination			
32.				
<ul><li>33.</li></ul>	Fan Condition	(P) Pass	P109	

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34.	Broken or missing components			
Initial	Electric Test	0		
35.	Resistance to Ground			
36.	Winding Resistance 1-2			
37.	Winding Resistance 2-3			
38.	Winding Resistance 1-3			
39.	Resistive Imbalance			
40.	Hi-Pot			
<b>4</b> 1.	Surge Test (F) Fail	P58		
42.	Stator Condition			
43.	Failure Location			
Initial	Rotor Inspection	o		
44.	Rotor Type cast aluminum	 P4		
45.	Air Gap <10% Variation			
46.	Number of Rotor Bars			
47.	Number of Broken Rotor Bars 0			
<b>4</b> 8.	Growler Test (P) Pass			
<b>4</b> 9.	Rotor Condition (P) Pass			
Mech	anical Inspection			
	Bearing Manufacture			
51.	Bearing DE Size 6307 2Z			
52.	Bearing DE Type ball			
53.	DE Bearing Qty. 1			
54.	Bearing ODE Size 6206			
55.	Bearing ODE Type ball			
56.	ODE Bearing Qty.			
57.	Insulated Bearing			
58.	Lubrication Type grease			
59.	Grease Condition (F) Fail			
60.	Bearing Retainers (Y) Yes			
61.	Shaft Grounding Device			
62.	DE Seal (N) No			
63.	DE Seal Type/Size 2.1285/0.3125/1.3765			
64.	ODE Seal			
65.	ODE Seal Type/Size			
Root	Cause of Failure			
66.	Component Failure windings and ODE end bell bearing fit			
67.	Cause of Failure			
	Over loaded causing short to ground on the windings and ODE end bell fit is over sized from wear			
68.	Comments			
	Recommend rewind and machine work on ODE end bell			

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69. Service Technician

Chris Wiley

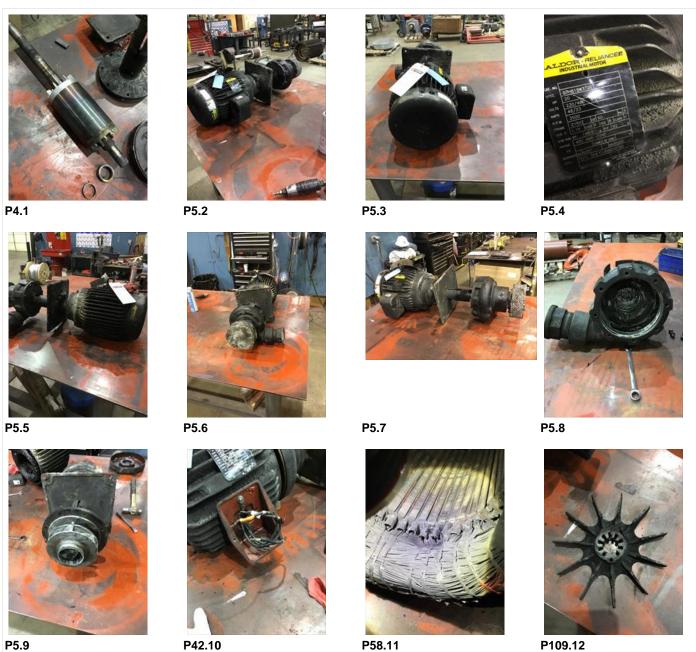
	(			
M	lachi	ine Fit Inspection Report		0
		Shaft Run Out	•	
	71.	Initial Shaft Run Out		
	72.	Final Shaft Run Out		
	73.	DE Bearing Shaft Fit	(P) Pass	
	74.	DE Initial Shaft Bearing Fit Size 1	1.3783 "	
	75.		1.3783 "	
	76.		1.3785 "	
	77.	DE Finial Shaft Bearing Fit Size 1		
	78.	•		
	79.	DE Finial Shaft Bearing Fit Size 3		
	80.	ODE Bearing Shaft Fit	(P) Pass	
	81.	ODE Initial Shaft Bearing Fit Size 1	1.1815 "	
	82.	ODE Initial Shaft Bearing Fit Size 2	1.1815 "	
	83.	ODE Initial Shaft Bearing Fit Size 3	1.1814 "	
	84.	ODE Finial Shaft Bearing Fit Size 1		
	85.	ODE Finial Shaft Bearing Fit Size 2		
	86.	ODE Finial Shaft Bearing Fit Size 3		
	87.	DE Air Seal Shaft Fit		
	88.	DE Initial Air Seal Shaft Size		
	89.	DE Final Air Seal Shaft Size		
	90.	ODE Air Seal Shaft Fit		
	91.	ODE Initial Air Seal Shaft Size		
	92.	ODE Final Air Seal Shaft Size		
	93.	DE Endbell Fit	(P) Pass	P129
	94.	DE Initial Endbell Fit Size 1	3.1504 "	
	95.	DE Initial Endbell Fit Size 2	3.1503 "	
	96.	DE Initial Endbell Fit Size 3	3.1505 "	
	97.	DE Final Endbell Fit Size 1		
	98.	DE Finial Endbell Fit Size 2		
	99.	DE Final Endbell Fit Size 3		
	100.	DE Endbell Fit Insulated		
	101.	DE Endbell Air Seal Fit		
	102.	Initial Endbell Air Seal Fit Size		
	103.	Finial Endbell Air Seal Fit Size		
	104.	ODE Endbell Fit	(F) Fail	P145
	105.	ODE Initial Endbell Fit Size 1	2.4419 "	
	106.	ODE Initial Endbell Fit Size 2	2.4423 "	
	107.	ODE Initial Endbell Fit Size 3	2.4415 "	
	108.	ODE Final Endbell Fit Size 1		
	109.	ODE Final Endbell Fit Size 2		
	110.	ODE Final Endbell Fit Size 3		

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111	ODE Endbell Fit Insulated
	ODE Endbell Air Seal Fit
	ODE Initial Endbell Seal Fit Size
	ODE Finial Endbell Seal Fit Size
	Foot Flatness
	Foot Condition
	Flange Condition
	Service Technician
	cing Report
	Balance Type
	Balance Operating Speed
	Start Left End
	Start Right End
	Balancing Specification
	Finish Left End
125.	Finish Right End
	Service Technician
Asser	nbly and Final Test
	Meggar Testing Reading
128.	Surge Test
129.	Hi-Pot
130.	Winding Resistance 1-2
131.	Winding Resistance 2-3
132.	Winding Resistance 1-3
133.	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 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
149.	Temp at 20 minutes
150.	Temp at 25 minutes
151.	Temp at 30 minutes
152.	Temp at 35 minutes
153.	Temp at 40 minutes
154.	Temp at 45 minutes
155.	Temp at 50 minutes

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156. Temp at 55 minutes157. Temp at 60 minutes158. Motor Paint159. Service Technician



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P129.13

P145.14



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- 1. APPLICABILITY. The sale of any and all goods and/or services by Mock, Inc. d/b/a Hi-Speed Industrial Service ("Hi-Speed") shall be specifically conditioned upon and subject to the following terms and conditions which are incorporated by reference into any contracts and purchase orders with Hi-Speed, and which shall form and become a part of any agreement related thereto. Buyer's acceptance of any offer or quotation made by Hi-Speed for sale of any goods or services is expressly made subject to the terms and conditions set forth herein and to be so effective, Buyer need not sign or approve these Terms and Conditions to be bound hereunder provided a copy of same is provided to Buyer through any means. None of the terms and conditions contained herein may be added to, expanded, changed, modified, superseded or otherwise altered except as revised in writing and duly executed by Hi-Speed, and all orders received by Hi-Speed shall be governed only by the terms and conditions contained herein, notwithstanding any terms, conditions or provisions of any purchase order, release order, authorization or any other form issued by the Buyer. Hi-Speed hereby objects to any additional, modified, changed, deleted, altered or other terms and conditions not contained herein and notifies Buyer that any such terms or provisions are expressly rejected by Hi-Speed.
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- 4. <u>BILLING AND PAYMENT TERMS.</u> Hi-Speed shall invoice Buyer for all goods and/or services as same are rendered at the address listed on the quotation. Payments for all goods and/or services shall be due thirty (30) days from the date of the current invoice or as otherwise set forth in the quotation. Late payments are subject to a late fee of 5% of the total invoice amount. Recurring late payments may lead to a deposit requirement on future services or sale of goods. Buyer shall be liable to Hi-Speed for any and all fees and expenses incurred by Hi-Speed to collect any invoices or to enforce these Standard Terms and Conditions, including but not limited to, attorney's fees.
- 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.
- **DELIVERY SITE AND TIME FOR PERFORMANCE.** Hi-Speed and Buver 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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- 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.
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- 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.