

**Kinked Wrench Mechanical Ltd.**  
 RR1 Site 2 Box 7  
 Eckville, AB T0M 0X0, CA  
 kweaver@kinkedwrenchmechanical.com  
 403-429-0320



**Invoice:** INV-723  
**Date:** 9/14/2022

**Bill To**  
 Loki's Oilfield Services Ltd.

P: (403) 350-7816

**Remit Payment To**  
 Kinked Wrench Mechanical  
 RR1 Site 2 Box 7  
 Eckville, AB T0M 0X0, CA

Service Order	Terms	Due Date	Authorizer	Customer PO	Unit #
SO-1247	Net 30	10/14/2022	Richard Turner		2

Item	Description	Quantity	Rate	Amount
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**Complaint:** Alternator not charging - diagnose and repair

**Cause:** Customer request **Type:** Customer Requested Repair

Labor	<p><b>Correction:</b></p> <p>Electrical System / Alternator / customer brought unit to shop. open hood and inspect alternator. seems fine. remove battery cover and inspect all battery connections. found all eyelets still had rubber insulation over them as well as showing signs of heavy corrosion. remove all battery connections and cut off insulation covers. also use wire wheel to remove all corrosion from each connection. load test all 4 batteries. far left battery failed load test. install missing battery bridges between battery 2 and 3. - Completed: 9/14/2022</p> <p>re-connect all connections and try starting unit. unit starts great but not showing a charge. inspect alternator wiring. trace wiring from alternator right to starter. cut a bunch of zip ties and try tugging on wires. found disconnected eyelet for main power for charging. remove positive starter post nut and install charging eyelet. tighten nut and try starting unit. unit starts good and alternator now showing charge. inform customer. customer request to exchange new alternator with old alternator.</p> <p>remove fan belt. remove alternator from engine. install old alternator and try installing ground cable. threads were stripped. remove alternator again, drill out threads for ground and rethread to 5/16 thread. re-install old alternator again. connect both power and ground. re-install fan belt. start engine and check operation. alternator charging properly. tie up all loose wires. re-install battery box cover. clean up all tools - 9/14/2022</p>	3.00000	\$120.00	\$360.00
Parts	Red and clear Jumper cables for battery connections - 9352/9350	2.00000	\$54.08	\$108.16
<b>Subtotal</b>				<b>\$468.16</b>

**Unit: 2 VIN:** 1XKDD40XXFJ971511  
**2015 Kenworth T800**  
**Chassis:** 551,205 Miles  
**Engine:** 15,541 Hours

<b>Labor</b>	<b>\$360.00</b>
<b>Parts</b>	<b>\$108.16</b>
<b>Shop Supplies</b>	<b>\$23.41</b>
<b>Pre-Charge Subtotal</b>	<b>\$491.57</b>
<b>GST</b>	<b>\$24.58</b>
<b>(5.0000% of \$491.57)</b>	
<b>Total</b>	<b>\$516.15</b>
<b>Payments &amp; Credits</b>	<b>\$0.00</b>
<b>Balance Due</b>	<b>\$516.15</b>

I hereby authorize the above work to be done along with the necessary material and hereby grant you and/or your employees permission to operate the vehicle

NOT RESPONSIBLE FOR LOSS OR DAMAGE TO VEHICLE OR CONTENTS

\*\*\*If repairs performed required removal of wheels/tires, it is the vehicle operator's responsibility to re-torque wheel lug nuts after driving 100 kilometers\*\*\*