Barr None Mechanical Ltd
63014 Township Road 724
Lot #13
Clairmont, AB T8X 0V1
(587) 315-8850
office@barrnonemechanical.com
www.barrnonemechanicalltd.com

Invoice #9930

Created: 10/09/2025
Invoiced: 10/27/2025
Payment Term: On Receipt
Payment Due: 10/27/2025
Service Writer: Sylvan Barr

Veteran Oilfield
711069 Range Road 55
Country of Grande Prairie #1, AB T0H 0G0
Mobile: (780) 518-5407
admin@veteranoilfield.com

Hitachi 290LC-5N Excavator
VIN: 1FFDDB70CEE830407

Customer Comments	Recommendations
The right side final drive does not turn, makes a grinding noise The end of the stick is very sloppy and requires shims. Check it out and advise on repairs Make sure the heater and air conditioning are working properly	Coolant supplied by customer 10L 32 weight hydro oil

Final Drive Repair

HOURS: 9302

October 9, 2025 - JW
Remove right side final drive cover. Remove sun gear and inspect. Found sun gear and travel motor was stripped. Install cover to prevent contamination. Phone for parts quote. Clean up.

October 10, 2025 - JW
Inspect bucket pin. Remove bucket. Remove pin. Remove cover and sun gear from left final, gears very close to failing like on R/H side. Parts quote. Quick machine inspection, troubleshoot for no air conditioning, Cab air filters plugged up. Replace filters and test, OK. Clean up.

October 15, 2025 - JW
Removed right travel motor and tried to get collar out through the back. Could not had to remove and disassemble final drive to get to the collar. Lift machine and pull tracks around to where I want to split them. Go to split tracks and retainer pin was seized and had to be cut out. Track pin was seized and and took extra time to split tracks. Removed pin and split track. Unbolted from track frame and swung final into the shop.

October 16, 2025 - JW
Disassemble final drive and inspect parts. Found duo cone seals cracked and the hub bearings to be pitted as well. Clean parts. Get parts list clean up.

October 17, 2025 - JW
Go through final drive with Sylvan. Stop work and wait for customer approval. Got approval for repairs, clean parts and begin re-assembly.

October 19, 2025 - JW
Finish assembly of right final. Swing in right final. Hook up hydro lines and re assemble track. Fill final with oil 80-90. Test final drive all looks good. Split tracks on left side of machine and remove left final and swing into shop. Clean up

October 20, 2025 - JW
Disassemble left final and inspect. Found bad hub bearings and cracked dual cone seals as well. Re assemble left final with new parts.

October 21, 2025 - JW
Swing in left final. Hook up hydro lines and re assemble tracks adjust tracks. Fill final with oil 80-90. Test final. Install track pad with new hardware on right track. Walk unit around in yard and test travel functions, OK. Clean up.

October 22, 2025 - JW

Barr None Mechanical Ltd
63014 Township Road 724
Lot #13
Clairmont, AB T8X 0V1
(587) 315-8850
office@barrnonemechanical.com
www.barrnonemechanicalltd.com

Invoice #9930

Created: 10/09/2025
Invoiced: 10/27/2025
Payment Term: On Receipt
Payment Due: 10/27/2025
Service Writer: Sylvan Barr

Final Drive Repair

Test pressures for travel motors. All is good. Shim up bucket pin. Perform machine inspection and hand in. Order parts. Top up coolant and hydro oil. Replace leaking O-ring on the fitting at the hydro pump. Replace both L and R first bottom track rollers with new hardware. Bottom roller bolts were seized and I had a bolt snap off and had to remove broken bolt. Tighten up tracks clean up.

Description	Price	QTY	HRS	Subtotal
Labor: Regular ($165/hr)			38	$6,270.00
Part: SEAL	$1,075.70	2		$2,151.40
Part: BEARING - TAPERED ROLLER	$1,718.01	4		$6,872.04
Part: LOCK PIN - TRACK	$8.63	2		$17.26
Part: SEAL	$58.16	2		$116.32
Part: CAB AIR FILTER	$120.86	1		$120.86
Part: CAB AIR FILTER	$81.32	1		$81.32
Part: SHIM	$21.49	3		$64.47
Part: SHIM	$17.42	3		$52.26
Part: UNIVERS	$541.62	2		$1,083.24
Part: SNAP RING	$18.20	2		$36.40
Part: SNAP RING	$28.90	2		$57.80
Part: O-RING	$42.96	2		$85.92
Part: O-RING	$50.59	2		$101.18
Part: O-RING	$4.57	4		$18.28
Part: O-RING	$49.17	2		$98.34
Part: O-RING	$6.89	2		$13.78
Part: UNIVERSAL DRIVE SHAFT	$6.89	2		$13.78
Part: TELLUS 22 HYD/OIL	$7.44	10		$74.40
	Shop Supplies (7%): $1,213.03			**Total: $19,469.18**

Thank you for your business. The work is complete and your payment is due upon pickup of the vehicle. Mechanics liens may be placed on vehicles until repairs are paid for in full. Please contact us promptly if you have any questions about anything we did.
Please make all cheques payable to Barr None Mechanical Ltd. All invoices due 30 days after invoice date. An additional 8.5% per month will be charged on overdue accounts. If you have any questions concerning this Invoice please contact Andrew or Sylvan at 587-315-8850 or Email: office@barrnonemechanical.com
GST# 74194 6321 RT0001

Signature _____

Labor	$6,270.00
Parts	$11,059.05
Subtotal	$17,329.05
Shop Supplies	$1,213.03
EPA	$0.00
GST	$927.10
Grand Total	**$19,469.18**
Paid to Date	($0.00)
[redacted]	**$19,469.18**

Barr None Mechanical Ltd
63014 Township Road 724
Lot #13
Clairmont, AB T8X 0V1
(587) 315-8850
office@barrnonemechanical.com
www.barrnonemechanicalltd.com

Invoice #10407

Created: 01/09/2026
Invoiced: 01/09/2026
Payment Term: On Receipt
Payment Due: 01/09/2026
Service Writer: Ashley Huppe

Veteran Oilfield
711069 Range Road 55
Country of Grande Prairie #1, AB T0H 0G0
Mobile: (780) 518-5407
admin@veteranoilfield.com

Hitachi 290LC-5N Excavator
VIN: 1FFDDB70CEE830407

Missing Parts INV#9930

Description	Price	QTY	Subtotal
Part: ROLLER S	$498.97	2	$997.94
Part: BOLT, 22	$5.89	8	$47.12
Part: FILTER E	$226.48	1	$226.48
	GST (5%): $63.58		**Total: $1,335.12**

Thank you for your business. The work is complete and your payment is due upon pickup of the vehicle. Mechanics liens may be placed on vehicles until repairs are paid for in full. Please contact us promptly if you have any questions about anything we did.
Please make all cheques payable to Barr None Mechanical Ltd. All invoices due 30 days after invoice date. An additional 8.5% per month will be charged on overdue accounts. If you have any questions concerning this Invoice please contact Andrew or Sylvan at 587-315-8850 or Email: office@barrnonemechanical.com
GST# 74194 6321 RT0001

Signature _____

Parts	$1,271.54
Subtotal	$1,271.54
Shop Supplies	$0.00
EPA	$0.00
GST	$63.58
Grand Total	**$1,335.12**
Paid to Date	($0.00)
[redacted]	$1,335.12

Barr None Mechanical Ltd
63014 Township Road 724
Lot #13
Clairmont, AB T8X 0V1
(587) 315-8850
office@barrnonemechanical.com
www.barrnonemechanicalltd.com

Invoice #10468

Created: 01/19/2026
Invoiced: 02/12/2026
Payment Term: On Receipt
Payment Due: 02/12/2026
Service Writer: Sylvan Barr

Veteran Oilfield
711069 Range Road 55
Country of Grande Prairie #1, AB T0H 0G0
Mobile: (780) 518-5407
admin@veteranoilfield.com

Hitachi 290LC-5N Excavator
VIN: 1FFDDB70CEE830407

Customer Comments

- Espar not not working
- Engine code for low fuel pressure.
- Doesn't blow very good heat. Apparently the expansion valve has failed. Did have issues not blowing cold in the summer.

Hitachi 290 - No Cab Heat

HRS: 9554

Jan 22, 26 - MG
HRS: 9554
Condition/ no heat in the cab. ESPAR not working. Past error code from fuel system.

Trouble shoot/ warm machine to operating temperature. The coolant temperature will build up to 81°C. There is almost no heat come through vents. Air flow in cab is good. Note that coolant temperature drop to 61°C in a very short time. The radiator is covered with canvas. Use two pieces of metal and completely pinch off the top radiator hose connection. Then warm the engine again, and this time the coolant temperature rises up to 88-90°C very easily. when the top radiator hose unplugged the coolant loses temperature very quickly. The thermostats have failed. When the coolant is hot. The air temp of the hvac in the cab is 28°C.

Find that the ESPAR heater will give code F30 after trying to start. The fan is making no noise.
Find there is a leaking bucket cylinder hose. Take pics and send to Cory.
Then look into the engine error code 1347-4. There is a problem with the SCV on the fuel pump. Try to hook up laptop. Had trouble hooking up. Once connected looked through ECM to test fuel pump control. Seems to run well at this time. Suspected that the SCV is failing. Called and phoned for parts availability.

Jan 23, 26 - SL
HRS: 9558
Troubleshoot active fault code 1347-04 for the suction control. Removed top hood covers to access the fuel pump. Troubleshoot suction control valve and found the control valve connectors inside are losing connection even when it's unplugged and the resistance is very low. Let sylvan know what we needed for parts.

Jan 26, 26 - SL
Traveled to supplier and got the suction control valve. Removed old valve and installed the new one. Ran the machine and no more fault codes. Reinstalled hood covers and brackets, then did paperwork.

Feb 10, 26 - MG
12pm/3:30pm
Remove damaged hoses that are leaking on the arm/boom connection. Have new hoses made. Also started the machine to check for heat in the cab. Find that the heat is poor. Look under machine and find that a new Webasto coolant heater has been installed. However the one way check valve has been removed. This check valve is to make sure all coolant flow goes to the cab and not bypass through the coolant heater. Order a new check valve and pick up from supplier and also pickup the hoses while I was out.

Feb 11, 26 - MG
8am/11am
Install new hydraulic hoses from the boom to the arm.
Then install the check valve back into the coolant heater lines for Webasto heater. Heater runs and does not shut down. A new coolant heater has been installed by another company.

Barr None Mechanical Ltd
63014 Township Road 724
Lot #13
Clairmont, AB T8X 0V1
(587) 315-8850
office@barrnonemechanical.com
www.barrnonemechanicalltd.com

Invoice #10468

Created: 01/19/2026
Invoiced: 02/12/2026
Payment Term: On Receipt
Payment Due: 02/12/2026
Service Writer: Sylvan Barr

Hitachi 290 - No Cab Heat

Shut coolant heater down and start engine. Warm engine to operating temperature and there is good heat coming from the heater vents. Clean up tooling and work area.

Description	Price	QTY	HRS	Subtotal
Labor: Regular ($165/hr)			27	$4,455.00
Part: THERMOSTAT	$111.59	1		$111.59
Part: THERMOSTAT 1	$111.59	1		$111.59
Part: MEGA/SPIRAL 100R12 HOSE	$350.69	1		$350.69
Part: MEGA/SPIRAL 100R12 HOSE	$353.00	1		$353.00
Part: MEGA/SPIRAL 100R12 HOSE	$347.62	1		$347.62
Part: CONTROL VALV	$570.31	1		$570.31
Part: ELEC. CONNEC	$16.25	1		$16.25
Part: ELEC. CONNEC	$4.12	2		$8.24
Part: ELEC. CONNEC	$2.47	2		$4.94
Part: 3/4" INLINE CHECK VALVE	$20.21	1		$20.21
Part: 5/8 HOSE X 3/4NPT FITTING	$5.06	1		$5.06
Part: 3/4 HOSE X 3/4NPT FITTING	$5.70	1		$5.70
Part: FREIGHT	$12.00	1		$12.00
Subcontract: Install Thermo Pro	$4,500.00			$4,500.00
	Shop Supplies (7%): $446.05	GST (5%): $565.91		**Total: $11,884.16**

Thank you for your business. The work is complete and your payment is due upon pickup of the vehicle. Mechanics liens may be placed on vehicles until repairs are paid for in full. Please contact us promptly if you have any questions about anything we did.
Please make all cheques payable to Barr None Mechanical Ltd. All invoices due 30 days after invoice date. An additional 8.5% per month will be charged on overdue accounts. If you have any questions concerning this Invoice please contact Andrew or Sylvan at 587-315-8850 or Email: office@barrnonemechanical.com
GST# 74194 6321 RT0001

Signature _____

Labor	$4,455.00
Parts	$1,917.20
Subcontracts	$4,500.00
Subtotal	$10,872.20
Shop Supplies	$446.05
EPA	$0.00
GST	$565.91
Grand Total	**$11,884.16**
Paid to Date	($0.00)
[redacted]	**$11,884.16**