

RO4-16
MAY

NORS

Invoice Preview 8000394508

Nors Red Deer
6 Burnt Lake Crescent
Red Deer Alberta T4S 2L4
TEL: FAX: 403-346-3487

Date Opened: 24 April, 2026 04:24:20am

Opened By: PERRY DOYLE

CUSTOMER #: 144287
KOWAL CONSTRUCTION ALTA. LTD.
BOX 788
CROSSFIELD, Alberta, T0M 0S0

REPAIR LOCATION:

Repair Location:
Contact Name: Jordan Neilson
Telephone: 403-946-4450

Customer Purchase Order:	Job Code #: Y009-Customer Charge	Terms: NT30
Responsible Group: Multi-Line Field Service		Pay GST: Y
Equipment #: 2014645	Customer Unit #:	Pay PST: Y
Make: VOLVO	Model: L260H	Mfg Serial #: VCEL260HT00001177
Engine Model: D13	Engine Serial #: 874202	
Hour Meter: 8792	Warranty: PP216	Machine Down: No

Description

Look over unit.

February 8 2024 SHD - daily inspections loaded the service truck - travelled to the customer site - set up for repairs - found the machine has dead batteries - removed the battery cover - attempted to boost the machine with the service truck generator (not enough voltage in the batteries for the booster to work) - contacted the customer and asked for new batteries - was provided with a mac tools booster pack - hooked up the booster to the machine - was able to get enough power in the cab - found multiple codes on the dash (ECU communication error codes) - hooked up the laptop - read diagnostic codes - removed the booster pack from the machine - the customer brought some new batteries for the machine - installed the new batteries (batteries are too big for the battery box but will work for diagnostics) - began troubleshooting the codes - removed panels in the cab - inspected the main power fuses for the E-ECU and ACM as techtool can not read these ECU's - found fuses 77, 78, and 88 are blown - replaced the fuses - moved the ignition to position 1 (fuses blew instantly, indicating a short circuit) - disconnected the RA connector on the back of the cab - installed new fuses / turned the ignition to position 1 (fuses did not blow, no fault in cab) - connected the RA connector / disconnected the ACM and tested - found the voltage feed fuse 78 did not blow with the ACM unplugged -- plugged in the ACM and fuse 78 blew (indicating an electrical fault within the ACM) - left the ACM unplugged - installed new fuses -- disconnected the E1 connector for the engine and tested (fuse 77 did not blow) - connected the E1 connector (fuse 77 blew) - disconnected the engine preheater and tested again (blew fuse 77) - disconnected the E-ECU and installed a new fuse (fuse 77 did not blow, indicating an internal fault within the E-ECU) - informed the customer - re-installed panels - cleaned up tools / supplies - was advised to order the parts to repair at a later date

February 14 2024 SHD - Loaded the service truck - set up for repairs - replaced the ACM - applied power to the machine - found fuse 78 is no longer popping - re-installed the old ACM to confirm (fuse 78 popped) - installed the new ACM - disconnected the NOX sensors from the machine -

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positioned the ignition key to #1 position - found fuse 77 is not popping - installed the NOX sensors - fuse 77 still did not pop - attempted to program the ECU's - found a communication error with the W-ECU - diagnosed the circuit - found the voltage regulator has shorted and is causing fuse 72 to pop - disconnected the voltage regulator in the cab at connector CA - installed a new fuse - programed the ECU's - found a communication error with the VGT turbo and engine preheat - diagnosed the circuit - found the VGT turbocharger is shorted and causing the fuse 88 to pop - disconnected the VGT and installed a new fuse - started the machine / let idle - active code for low transmission oil pressure - found the alternator was not charging - inspected the fuses (good) - needs a new alternator - hooked up a pressure gauge to the transmission main pressure port - started the machine (OPSI main pressure) - informed the customer - shut down the machine - re-installed panels - cleaned up tools / supplies

February 15 2024 SHD - returned parts - created a parts list to be quoted for repairs - filled out time cards

Product Id	Description	Qty	Unit Price	Net Value
VOE23719482	CONTROL UNIT	1 EA	1,231.55	1,231.55
	Parts:			1,231.55
	Labour:			1,631.00
	Travel Labour:			114.00
	Mileage:	112 KM		235.20
	Expenses:			0.00
	Environmental Fees:			52.35
	Consumables Fees:			139.60
	Sub-Total:			3,403.70

GST: 170.19

Total: 3,573.89



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Equipment #: 2014645	Customer Unit #:	Pay PST: Y
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Engine Model: D13	Engine Serial #: 874202	
Hour Meter: 8792	Warranty: PP216	Machine Down: No

Product Id	Description	Qty	Unit Price	Net Value
	<p>Description</p> <p>Recal transmission - shifter not working</p> <p>Mar 30 2026 SHD - loaded the service truck - retrieved directions</p> <p>Mar 31 2026 SHD - Travelled to the customer site - set up for repairs - started the machine / let it warm up - found an active code for the gear selector - inspected fuse 31 (blown) - replaced the fuse - found the gear selector is now working - disassembled the operators seat to inspect the harness - found two spots where the harness has been squished and is shorting out - repaired and re-routed the harness - re-assembled the seat - test operated the machine (works properly) - found the downshift from 2nd to 1st is sometimes hard shifting - connected the laptop and started a transmission calibration (failed) - found the transmission calibration set a technical error when calibrating the R clutch - restarted the techtool program and the machine multiple times and attempted to calibrate the transmission (same results every time) - preformed transmission pressure checks - results are as follows - M 250PSI high idle 220PSI low idle - F 230 PSI - R 220PSI - 1 225PSI - 2 230PSI - 3 240PSI - 4 240PSI - L 19 - T 49PSI high idle 12PSI low idle - preformed the clutch activation test in techtool with the pressure gauge connected - 400MA is 110PSI - 600MA is 220PSI - cleaned up tools / supplies - informed the customer that the calibration can not be completed at this time but the unit is ok to use - travelled back</p> <p>Apr 1 2026 SHD - Filled out time cards - created a chain case for the transmission calibration issue</p>			



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Parts:		0.00
Labour:		1,500.00
Travel Labour:		342.00
Mileage:	226 KM	535.62
Expenses:		0.00
Environmental Fees:		47.76
Consumables Fees:		127.36
Sub-Total:		2,552.74

GST: 127.64

Total: 2,680.38



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Equipment #: 2014645	Customer Unit #:	Pay PST: Y
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Engine Model: D13	Engine Serial #: 874202	
Hour Meter: 8792	Warranty: PP216	Machine Down: No

Description

General repairs

July 4 2025 SHD - loaded the service truck - travelled to the customer site - set up for repairs - replaced the batteries - raised the engine hood - removed the engine belts - removed the alternator - swapped the pully from the old alternator to the new one - installed the new alternator - installed the new belts - started the machine - checked to see if it is charging (28.3v) - closed the engine hood - cleaned up tools / supplies - travelled home

July 7 2025 SHD - offloaded the service truck - returned the alternator core - filled out time cards

August 26 2025 SHD - Travelled to the customer site - set up for repairs - raised the engine hood - removed the broken anchors for the door shock - reinstalled the new anchors and door shock - removed the old co-pilot bracket - installed the new bracket - removed the panels from the cab to access the voltage inverter - removed the old voltage inverter - found the new voltage inverter is different - contacted my supervisor / parts department - was informed that the voltage converter supersedes to a new number and an adaptor harness was supposed to be ordered but was missed - was informed that the service manager will drive to Calgary to retrieve the harness and drop it off - found the rear differential breather filter was leaking (located at the top of the hydraulic tank) - removed the fill plug from the rear differential - removed 4 1/2 pails of oil from the fill plug - informed the customer - searched through schematics - found the only way for hydraulic oil to enter the rear axle is either the brake piston seals or the brake cooling system - installed a porta power on each brake piston - pressured the pistons (not leading down) - informed the customer that the source of the leak is coming from the brake cooling circuit (either the brake cooling pump or heat exchanger) - was advised to quote both for replacement - removed the old wheel brake accumulators - installed the new accumulators - drained the cooling system - removed the old turbocharger from the engine - installed the new turbocharger - filled the cooling system - started the engine (no active codes) - removed the old parking brake pads -

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installed the new pad kit - adjusted the parking brake - removed the LH mirror and bracket from the cab - removed the mirror from the bracket - removed the wiring harness for the mirror - installed the wiring harness onto the new bracket - installed the mirror - installed the new bracket onto the cab - adjusted both mirrors - removed the engine inlet filter housing - disconnected and raised the SCR system to access the valve cover - cleaned the valve cover - cleaned up tools / supplies - travelled back to the shop - filled out time cards - created a parts list to be quoted

August 27 2025 SHD - Travelled to the customer site - set up for repairs - performed a valve lash adjustment - re-assembled the engine - lowered the SCR system - connected the SCR system - lowered the engine hood - cleaned up tools / supplies - moved the machine out of the shop - performed a transmission calibration - moved the machine back into the shop - set up for repairs - began performing a service - replaced all breathers - removed the fill plug from the front axle housing (removed 1 1/2 pails of oil from the axle) will have a quote made to replace the axle cooling components - replaced the engine oil and filters - found the fuel water separator is after market and there is no fuel bowl - also found that the hand primer for the fuel filter housing is held down with a bunji cord - will have a quote built for these items also - cleaned up tools / supplies - travelled home

August 28 2025 SHD - offloaded the service truck - filled out time cards

Sept 17 2025 SHD - Travelled to the customer site - set up for repairs - installed the missing grease lines on the boom - greased the pivot pins - disassembled the cab to access the voltage converter - removed the old converter - installed the new converter with the new harness - tested the converter (works properly) - re-assembled the cab - drained the hydraulic tank - removed the hose from the PD port on the fan reversing valve - capped the hose - removed the hose from the hydraulic cooler that comes from the rear axle cooling heat exchanger - capped the line - installed a new hose from the PD port on the fan valve to the hydraulic cooler (bypassing the axle cooling circuit) - removed the case drain lines from the front and rear axle cooling motors and capped the lines - removed the tank line from the pressure limiting valve in the axle cooling circuit and capped - drained the front and rear axles - filled the axles with new fluid - replaced the hydraulic tank filters - filled the hydraulic tank with oil - replaced the fuel filter primer housing and fuel filters - started the machine and tested the fan (works properly) - cleaned up tools / supplies - travelled back to the shop - offloaded the service truck

Sept 18 2025 SHD - filled out time cards

Product Id	Description	Qty		Unit Price	Net Value
VOE17410989	BRAKE KIT	1	EA	582.46	582.46
VOE9017204355	ALTERNATOR	1	EA	816.82	816.82
VOE54089873	ANCHORAGE	1	EA	1,261.14	1,261.14
VOE24136077	CONVERTER	1	EA	713.27	713.27
VOE9022918827	TURBOCHARGER	1	EA	7,886.15	7,886.15
VOE20781146	GASKET	1	EA	18.02	18.02
VOE20573472	SPACER SLEEVE	4	EA	13.36	53.44
VOE993811	FLANGE SCREW	4	EA	40.20	160.80
VOE470993	GASKET	1	EA	7.28	7.28
VOE13947622	PLANE GASKET	2	EA	2.10	4.20
VOE984890	O-RING	1	EA	21.78	21.78

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Product Id	Description	Qty		Unit Price	Net Value
VOE21092243	SEALING RING	1	EA	14.58	14.58
VOE984797	O-RING	1	EA	17.98	17.98
VOE982724	GASKET	2	EA	22.84	45.68
VOE977935	GASKET	5	EA	7.92	39.62
VOE13947281	GASKET	4	EA	1.62	6.46
VOE17258319	ACCUMULATOR	1	EA	1,031.05	1,031.05
VOE993323	O-RING	3	EA	8.99	26.98
VOE15079714	WINDSHIELD	1	EA	1,434.29	1,434.29
VOE15053915	WINDOW	1	EA	629.68	629.68
VOE15053831	WINDOW	1	EA	629.68	629.68
VOE15169738	MIRROR ARM	1	EA	581.73	581.73
VOE23605894	V-RIBBED BELT	1	EA	123.04	123.04
VOE55204155	V-RIBBED BELT	1	EA	101.68	101.68
VOE16335058	GAS SPRING	1	EA	179.15	179.15
VOE15144938	LOCKING DEVICE	2	EA	2.55	5.10
VOE15140510	BALL STUD	2	EA	15.98	31.96
VOE421158	SEALING RING	1	EA	11.40	11.40
VOE60113126	FLANGE SCREW	3	EA	2.86	8.59
VOE11177392	SPACER	3	EA	36.62	109.86
VOE60113807	WASHER	3	EA	2.45	7.34
VOE17258321	ACCUMULATOR	2	EA	1,313.74	2,627.48
SUBLET	Gregg -batteries 94DLT				1,081.20
VOE54022803	VOLVO ENGINE OIL VDS-4.5 15W-40	2	EA	171.98	343.95
	Above part includes a disposal fee of \$ 6.80				
VOE54022813	VOLVO ENGINE OIL VDS-4.5 15W-40	3	EA	40.65	121.95
	Above part includes a disposal fee of \$ 2.16				
VOE17533661	OIL FILTER	2	EA	41.50	83.00
	Above part includes a disposal fee of \$ 2.50				
VOE21707132	OIL FILTER	1	EA	41.49	41.49
	Above part includes a disposal fee of \$ 1.25				
VOE11110683	FUEL FILTER	1	EA	115.19	115.19
	Above part includes a disposal fee of \$ 1.25				
VOE54315806	FUEL FILTER	1	EA	90.91	90.91
	Above part includes a disposal fee of \$ 1.25				
VOE11172907	AIR FILTER	5	EA	53.32	266.60
VOE54022888	Volvo Wet Brake Oil 97304 WB102	8	EA	267.38	2,139.06
	Above part includes a disposal fee of \$ 27.20				
VOE958228	O-RING	8	EA	7.89	63.08
VOE13976109	O-RING	2	EA	7.73	15.46
VOE54022853	Volvo Hydraulic Oil 98611 HO103 46	12	EA	196.99	2,363.89
	Above part includes a disposal fee of \$ 40.80				
VOE11707077	FILTER INSERT	1	EA	42.20	42.20
VOE958229	O-RING	1	EA	8.68	8.68
VOE13960248	O-RING	1	EA	8.00	8.00
VOE20538793	SEALING STRIP	1	EA	333.50	333.50
VOE21620181	FILTER KIT	1	EA	189.31	189.31
VOE21532258	SEALING RING	1	EA	21.64	21.64
VOE54236381	PLASTIC BOTTLE	4	EA	37.34	149.36
VOE54683953	WIRING HARNESS	1	EA	36.72	36.72
VOE54045854	FILTER ELEMENT	1	EA	224.64	224.64
VOE54864253	BOWL	1	EA	331.48	331.48
VOE16610268	TUBE	1	EA	188.02	188.02
VOE15100977	TUBE	1	EA	131.00	131.00
SUBLET	Gregg - hoses				484.19
VOE16915551	TUBE	1	EA	54.16	54.16

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VOE11701842	ADAPTER	1	EA	24.31	24.31
VOE11701837	CONNECTOR	1	EA	21.36	21.36
VOE15149647	SCREW	1	EA	101.56	101.56
VOE11177488	CONNECTOR	4	EA	21.54	86.16
VOE22035823	FUEL FILTER HOUSING	1	EA	684.71	684.71
	Parts:				29,035.47
	Labour:				6,714.00
	Travel Labour:				900.60
	Mileage:	553	KM		1,161.30
	Expenses:				0.00
	Environmental Fees:				200.00
	Consumables Fees:				609.17
	Sub-Total:				38,620.54

GST: 1,931.03

Total: 40,551.57



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Engine Model: D13	Engine Serial #: 874202	
Hour Meter: 8792	Warranty: PP216	Machine Down: No

Description

supply and install Transmission

June 16 2025 SHD - loaded the service truck

June 17 2025 SHD - Travelled to the customer site - set up for repairs - removed panels from the machine - drained the hydraulic tank - removed the drive shafts from the transmission - drained the transmission - removed the steering orbital motor from the cab - removed the brake foot pedal from the cab - removed the cab mount bolts - removed the electrical connections from the cab - tilted the cab to position 1 - removed the evaporator hose straps - moved the cab to position 2 - removed the hydraulic lines from the tank - rigged up the crane to the tank - removed the tank from the machine - removed the hydraulic lines from the hydraulic pumps - removed the P3 pump from P1 - rigged up the crane to the transmission - removed the parking brake assembly from the transmission - supported the engine with a come along - removed the bell housing mount bolts - removed the transmission frame mounts - lifted the transmission out of the machine - swapped connections and the wiring harness from the old transmission to the new one - swapped the hydraulic pumps from the old transmission to the new one - cleaned up tools / supplies - travelled home - filled out time cards

June 18 2025 SHD - Travelled to the customer site - set up for repairs - removed panels from the machine to access the transmission cooler and lines - drained the cooling system - removed the transmission cooler lines - removed the coolant hoses from the cooler - removed the cooler - installed the new cooler - installed the new cooler lines - installed the coolant lines - filled the cooling system - rigged up the crane to the transmission - lifted the transmission into the machine - installed the bell housing mount bolts - installed the transmission frame mounts - removed the crane - installed the rear drive shaft - installed the transmission fill line / bell housing drain line - installed the parking brake assembly - installed the transmission lines - installed the P3 pump - attached the hydraulic lines - lifted the hydraulic tank onto the machine - installed the hydraulic tank lines - installed the hydraulic tank wiring harness - lowered the cab - installed the mounting bolts -



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installed the cab electrical - installed the foot brake valve --
 installed the steering orbital motor - replaced the engine air filters -
 replaced the cab air filters - installed the accelerator pedal - cleaned
 up tools / supplies - travelled back to the shop - offloaded the service
 truck - loaded the filter cart onto the service truck - travelled home
 filled out time cards

June 19 2025 SHD - Travelled to the customer site - set up for repairs -
 unloaded the filter cart from the truck - filtered the hydraulic oil
 back into the hydraulic tank - topped up the hydraulic tank with
 hydraulic oil pales from the service truck as it was very low - loaded
 the filter cart back into the service truck - filled the transmission
 with oil - connected the batteries - started the machine - let the
 machine idle / inspected for leaks - found one leak coming from the lube
 test port line - removed the fitting - installed a test port fitting -
 started the engine - set the parking brake - lifted the front of the
 machine - installed the front drive shaft - lowered the machine - moved
 the machine out of the shop - operated the machine in the yard - found
 the alternator is not charging - inspected the wiring harness and fuses
 (no defects found) - will need to replace the alternator - unable to
 preform the transmission calibration (due to alternator not charging) -
 created a list off repairs for the machine - parked the machine in the
 wash bay - cleaned the work bay - cleaned up tools / supplies -
 travelled back to the shop - offloaded the service truck - filled out
 time cards

June 20 2025 SHD - Created a parts list to be quoted - quote sent to
 Jordan

Product Id	Description	Qty		Unit Price	Net Value
VOE900022757	HYDRAULIC TRANSMISSION	1	EA	68,782.70	68,782.70
VOE16336921	WIRING HARNESS	1	EA	136.69	136.69
VOE15135094	HEAT EXCHANGER	1	EA	5,655.85	5,655.85
VOE15138691	HOSE ASSEMBLY	1	EA	346.00	346.00
VOE15138563	HOSE ASSEMBLY	1	EA	424.40	424.40
VOE990756	SEALING RING	4	EA	14.15	56.60
VOE15143347	Volvo Automatic Transmission Fluid 97342	3	EA	218.91	656.73
	Above part includes a disposal fee of \$ 10.20				
VOE11172907	AIR FILTER	1	EA	50.16	50.16
VOE421158	SEALING RING	1	EA	11.20	11.20
VOE990737	O-RING	2	EA	3.50	7.00
VOE14213676	SEALING RING	2	EA	10.83	21.66
VOE13949574	O-RING	3	EA	3.49	10.48
VOE11411501	NIPPLE	2	EA	55.51	111.01
VOE978129	O-RING	2	EA	6.68	13.36
VOE980102	O-RING	2	EA	14.30	28.60
VOE990743	O-RING	2	EA	9.31	18.62
VOE14882694	O-RING	2	EA	7.62	15.24
VOE990757	SEALING RING	2	EA	16.81	33.62
VOE990740	O-RING	3	EA	4.28	12.84
VOE13960246	O-RING	2	EA	18.06	36.12
SUBLET	hotshot - Ace				699.31
VOE968203	O-RING	1	EA	152.50	152.50
VOE54840247	COOLANT	4	EA	48.10	192.39
VOE54022853	Voivo Hydraulic Oil 98611 HO103 46	4	EA	185.25	741.01



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Parts:			78,214.09
Labour:			6,720.00
Travel Labour:			1,060.20
Mileage:	720	KM	1,512.00
Expenses:			0.00
Environmental Fees:			200.00
Consumables Fees:			622.42
Sub-Total:			88,328.71

GST: 4,416.44

Total: 92,745.15



Onsite Machining Solutions Ltd.

3727 51 Avenue
 Innisfail, Alberta T4G 1H7
 Canada

INVOICE

Invoice No.: 6091
 Date: Aug 05, 2025

Page: 1

Sold to:

Kowal Construction Alberta Ltd
 Box 788
 Crossfield, Alberta TOMOSO

Business No.: 811910421RT0001

Quantity	Unit	Description	Tax	Unit Price	Amount
94	Hours	Remove loader bucket and link from Volvo loader. All pins required to be lanced then pressed out to remove. Set up and machine all 3 bores on the loader bucket as well as all 6 inner wear faces. All bores to fit new pins supplied. Set up and machine the bores and faces on the loader arms. Machine faces back to factory width to fit new bearings and seals. Install bearings and seals. Bore both ends of the bucket link to fit oversized bushings. Install bushings and seals. Assemble all parts and grease as required.	G	150.00	14,100.00
1	Parts	Supply material and labour to build one new bucket link pin. Supply bushings for the bucket link. Material and labour. Repair completed July 29, 2025	G G	2,501.55	2,501.55
Subtotal:					16,601.55
G - GST 5%					830.08
GST					
Comment: For e-transfer auto deposit please use omsltd@telus.net				Total Amount	17,431.63
<small>All repairs by Onsite Machining Solutions Ltd. have been completed to the best of our ability according to the parts, instructions and/or drawings supplied to us. Please carefully inspect all parts upon receipt. Any problems will be corrected or refunded if brought to our attention before installation. All parts or components will be considered to have passed the customer's quality assurance once installed. At this point Onsite Machining Solutions Ltd. offers no warranty and all liability passes onto the installer.</small>					