Invoice Date: 07-08-22

Work Order

IT41505

Year	Make / Model	VIN	License	Mileage	Unit / Stock	Color
2012	Volvo / VNL	4V4NC9EH3CN544813	[redacted]	1	4813	

Open Date / Time	Delivery Date	Complete	Engine Hours	Key Tag	Service Writer	P.O. Number
06-18-22 / 01:08PM		06-27-22	0.0		[redacted]	

Engine Model / Serial #	Transmission Model/Serial #	Rear Axle Model / Serial #
D13 / D13/963863	1100107148 / 1100107148	/

Memo	

CORRECTION: installed 45 zerks on front top caps facing s cams and slacks
installed longer straights on rear of top caps for better visibility and access.

TOTAL LABOR
TOTAL PARTS [redacted]

Qty	Part Number	Description	List	Unit	Extended
2	52065	1/8X45 GR	[redacted]		
2	52062	1/8 PT EX			
4	52144	RED GREAS			

5 GREASE UNIT.
CAUSE: grease
CORRECTION: greased all grease points on unit

TOTAL LABOR
TOTAL PARTS [redacted]

Qty	Part Number	Description	List	Unit	Extended
2	229	ULTRA RED	[redacted]		

6 REMOVE 2ND DRIVE SHAFT AND SEND OUT FOR YOKE REPLACEMENT
CAUSE: slip joint
CORRECTION: pulled drive shaft out so it can be sent out for slip yoke replacement. towed unit into shop installed 2nd drive line with new bolts.
double checked ride height, everything is good at this time.

TOTAL LABOR
TOTAL PARTS [redacted]

Qty	Part Number	Description	List	Unit	Extended
1	REBUILD	REPLACE YOK	[redacted]		

7 REPLACE INTERMEDIATE DRIVESHAFT.
CAUSE: intermediate shaft slip seized
CORRECTION: removed and replaced intermediate drive shaft installed with new bolts

TOTAL LABOR
TOTAL PARTS [redacted]

[redacted]

TOMER SIGNATURE AUTHORIZED DEALERSHIP REPRESENTATIVE SIGNATURE DATE

Invoice Date: 04-30-20

Work Order
IT34537

Year	Make / Model	VIN	License	Mileage	Unit / Stock	Color
2012	Volvo / VNL	4V4NC9EH3CN544813	[redacted]		4813	

Open Date / Time	Delivery Date	Complete	Engine Hours	Key Tag	Service Writer	P.O. Number
03-11-20 / 05:49PM	06-28-11	04-20-20			[redacted]	

Engine Model / Serial #	Transmission Model/Serial #	Rear Axle Model / Serial #
D13 / D13/963863	1100107148 / 1100107148	/

Memo	

5	1677347H	SHIM	
5	1547984H	SHIM	
5	1547983H	SHIM	
20	26683	TIE 3/16X	
1	471708	RUBBER MO	
1	21870635	FUEL FILT	
1	21328947V	FUEL PIPE	
3	26057	3/4 STEEL	
1	21937327	COOLANT F	
1	23059017	EXPANSION	
12	FC50	FLEET CHA	
10	AXC0734	BRAKE CLE	
1	FREIGHT		

4 EXHAUST FROM TURBO IS LAYING ON FRAME CHECK AND ADVISE.
CAUSE:
EXHAUST REPAIR
CORRECTION:
EXHAUST FROM DIFFUSER TO DPF ASSEMBLY WAS RUBBING AGAINST THE RIGHT FRAME RAIL. PULLED THE PIPE SECTION OUT AND SPLIT IT WHERE NEEDED TO MAKE THE REPAIR. INSPECTED PIPES AND DID NOT FIND ANY LEAKS, RUB THROUGHS OR CRACKS. CLEANED THE PIPES UP AND RE-INSTALLED THEM WITH NEW GASKETS AND CLAMPS. CLOCKED ALL THE SECTIONS TO KEEP THE EXHAUST OFF THE FRAME.

TOTAL LABOR
TOTAL PARTS

Qty	Part Number	Desc	List	Unit	Extended
1	21419712H	OILLINE			
1	21095721	GASKET			
1	21060426	V-BAND CL			
1	21021850	V-BAND CL			
1	21095726	GASKET			
1	21007187	GASKET			
1	20526428	SEALING R			
1	21545619	V-BAND CL			
1	FC50	FLEET CHA			

SHOP SUPPLIES
ENVIRONMENTAL FEE

CUSTOMER SIGNATURE AUTHORIZED DEALERSHIP REPRESENTITIVE SIGNATURE DATE

Invoice Date: 04-30-20

Work Order

IT34537

Year	Make / Model	VIN	License	Mileage	Unit / Stock	Color
2012	Volvo / VNL	4V4NC9EH3CN544813	[redacted]		4813	

Open Date / Time	Delivery Date	Complete	Engine Hours	Key Tag	Service Writer	P.O. Number
03-11-20 / 05:49PM	06-28-11	04-20-20			[redacted]	

Engine Model / Serial #	Transmission Model/Serial #	Rear Axle Model / Serial #
D13 / D13/963863	1100107148 / 1100107148	/

Memo

SPEC. STARTED PREPPING NEW PISTONS WITH NEW PINS AND SNAP RINGS. FINISHED PREPPING NEW PISTONS AND PINS WITH CONNECTING RODS. PREPPED NEW CYLINDER LINERS AND INSTALLED. WENT THROUGH OVERHAUL KIT TO SEE WHAT IS THERE AND WHAT IS NEEDED FOR GASKETS/PARTS. KIT DID NOT COME WITH OIL PAN GASKET, GOT WITH PARTS TO GET NEW ONE. GOT EVERYTHING CLEANED UP AND READY TO SPIN NEW MAIN BEARINGS IN FIRST THING TOMORROW. REMOVED MAIN BEARING CAPS AND INSPECTED. CLEANED AND PREPPED JOURNALS AND LANDS FOR NEW BEARING INSTALL. SPUN NEW MAIN BEARINGS IN AND RE-INSTALLED BEARING CAPS. TORQUED ALL BEARING CAPS TO SPECS. STARTED INSTALLING NEW PISTONS AND ROD BEARINGS. FINISHED INSTALLING NEW PISTONS WITH NEW ROD BEARINGS. TORQUED ALL TO SPECS. REMOVED OIL PUMP AND PREPPED BLOCK BOTTOM FOR NEW OIL PUMP AND FOR RE-INSTALLATION OF OIL PAN. INSTALLED NEW OIL PUMP AND TORQUED TO SPECS. CLEANED AND PREPPED WINDAGE TRAY, RE-INSTALLED TRAY AND TORQUED TO SPECS. RE-INSTALLED OIL PUMP SUMP AND PIPING WITH NEW O-RINGS. READY TO RE-INSTALL OIL PAN TOMORROW. CLEAN AND PREP OIL PAN AND ROCKER COVER, INSTALLED NEW GASKETS ON BOTH. CLEANED AND PREPPED RIGHT SIDE OF BLOCK FOR NEW OIL COOLER AND HOUSING, WAITING ON PARTS. CHASED AND CLEANED THREADS FOR CYLINDER HEAD BOLT HOLES IN BLOCK. CLEANED AND INSPECTED CYLINDER HEAD BOLTS FOR RE-USE, THEY ARE GOOD. CLEANED AND PREPPED UPPER TIMING COVER AND INSTALLED NEW GASKETS. CLEANED AND INSPECTED CAM TIMING GEAR, GOOD. CLEANED AND PREPPED TURBO, CHASED THREADED BOLT HOLES. CLEANED AND INSPECTED DIFFUSER PIPE AND EXHAUST CORRUGATED PIPE FOR RE-USE. RE-TAPPED EXHAUST MANIFOLD BOLT HOLES FOR TURBO AND EGR. PREPPED MANIFOLD AND INSPECTED. GOT EVERYTHING PREPARED FOR ENGINE RE-ASSEMBLY, WAITING ON CYLINDER HEAD. CLEANED UP AREA AND PUT THINGS AWAY. CLEANED AND PREPPED INTAKE MANIFOLD. THE BOOST PRESSURE/TEMP SENSOR WAS COMPLETELY PLUGGED, REMOVED AND INSTALLED A NEW ONE. GOT NEW CYLINDER HEAD, PREPPED IT FOR NEW INSTALL. INSTALLED INTAKE AND EXHAUST MANIFOLDS WITH NEW GASKETS AND TORQUED TO SPECS. INSTALLED CYLINDER HEAD WITH NEW HEAD GASKET, TORQUED TO SPECS. INSTALLED CAMSHAFT WITH NEW BEARINGS AND TORQUED TO SPECS. SET BASE TIMING AND INSTALLED CAMSHAFT GEAR. CLEANED BACK SUPPORT PLATE BEHIND CYLINDER HEAD AND RE-INSTALLED TOP TIMING COVER WITH NEW GASKETS. INSTALLED NEW OIL COOLER HOUSING WITH NEW GASKETS. RE-INSTALLED EGR VALVE WITH NEW GASKET. RE-INSTALLED EGR COOLER WITH NEW GASKETS. MADE COOLANT CONNECTIONS TO WATER PUMP BACK HALF AND TO THERMOSTAT HOUSING MANIFOLD. RE-INSTALLED TURBO WITH NEW GASKETS. MADE ELECTRICAL CONNECTIONS WHERE NEEDED. RE-INSTALLED AIR INTAKE HEATER WITH NEW GASKETS AND INSTALLED THE 6 INJECTORS. RE-INSTALLED THE OIL PAN WITH NEW GASKET AFTER PREPPING THE LOWER BLOCK. MADE OIL FILL AND DIPSTICK CONNECTIONS. FILLED OIL PAN WITH OIL TO FULL MARK BUT OIL, FUEL AND COOLANT FILTERS NEED CHANGED OUT A WELL AS THE AIR FILTER.

CUSTOMER SIGNATURE

AUTHORIZED DEALERSHIP REPRESENTITIVE SIGNATURE

DATE

Invoice Date: 04-30-20

Work Order

IT34537

Year	Make / Model	VIN	License	Mileage	Unit / Stock	Color
2012	Volvo / VNL	4V4NC9EH3CN544813	[redacted]		4813	

Open Date / Time	Delivery Date	Complete	Engine Hours	Key Tag	Service Writer	P.O. Number
03-11-20 / 05:49PM	06-28-11	04-20-20			[redacted]	

Engine Model / Serial #	Transmission Model/Serial #	Rear Axle Model / Serial #
D13 / D13/963863	1100107148 / 1100107148	/

Memo

RECORDED THE TRIM CODE OFF IT WITH THE OTHER INJECTOR TRIM CODES. RE-INSTALLED THE ROCKER SHAFT ASSEMBLY AND TORQUED TO SPECS. STARTED RUNNING COMPLETE OVERHEAD. EXHAUST BRIDGES HAVE SHIMS AND EACH WILL NEED TO BE MEASURED AND TESTED TO GET THE CORRECT ONE. FOUND THIS UNIT IS NEEDING .280, .285 AND .290 SHIMS AND WE ARE ALL OUT FROM LAST CYLINDER HEAD REPLACEMENT. FINISH SETTING OVERHEAD TO SPEC. CRANK UNIT TO PRIME OIL SYSTEM. PRIME THE FUEL SYSTEM, START UNIT. UNIT WILL RUN AND THEN DIE. PRIME FUEL SYSTEM AGAIN AND WILL START AND DIE. UNIT LOOSING FUEL PRIME. START TRACING DOWN ISSUE. FOUND THE PRIMING PUMP ON THE FUEL FILTER HOUSING HAS FAILED. REMOVED FUEL LINES AND ELECTRICAL CONNECTION FROM FILTER HOUSING. THE FUEL LINE COMING FROM THE RETURN ON THE CYLINDER HEAD TO THE FUEL FILTER HOUSING BROKE AT THE FITTING ON THE FILTER HOUSING. LINE CAN NOT BE REPAIRED. GOT WITH PARTS TO LOCATE ONE. FINISHED REMOVING FILTER HOUSING AND TRANSFERRED THE SUPPLY LINE FITTING TO THE NEW FILTER HOUSING. REMOVED THE BROKEN FUEL LINE AND INSTALLED THE NEW ONE. INSTALLED THE NEW FILTER HOUSING AND MADE ALL FUEL LINES CONNECTIONS AS WELL AS ELECTRICAL. INSTALLED NEW FUEL FILTER AND PRIMED SYSTEM UP. WAITED A FEW MINUTES AND RECHECKED PRIME, WAS STILL GOOD. BEFORE IT WOULD LOSE PRIME WITHIN A FEW MINUTES. STARTED UNIT UP AND IT RUN FINE. UNIT STILL NEEDS COOLANT FLUSH AND FINISH THE SERVICE. WILL CONTINUE TOMORROW. FINISH TYING THINGS UP FROM FUEL FILTER HOUSING REPLACEMENT. PUT SOAP IN COOLING SYSTEM AND FILL WITH WATER. RUN UNIT ON HIGH IDLE. WHILE UNIT WAS RUNNING, REMOVED BROKEN BOLTS FROM LOWER BRACKET THAT HOLDS THE RIGHT INNER SPLASH SHIELD IN PLACE. HEATED BOLTS UP AND GOT BOTH REMOVED. LET COOL DOWN AND RE-INSTALLED INNER SPLASH SHIELD UPPER BRACKET AND SPLASH SHIELD ON RIGHT SIDE. REINSTALLED RIGHT BUMPER EXTENSION AND STEPS/FAIRING. ENGINE UP TO OPERATING TEMP NOW, MOVED TO A BAY WITH A DRAIN. DRAINED WATER/SOAP, FILLED BACK UP WITH NEW WATER SOAP AND RUN AGAIN. DRAINED WATER/SOAP AND STARTED RUNNING STRAIGHT WATER THROUGH TO PURGE SOAP OUT OF SYSTEM. WATER RUNNING CLEAN OUT OF RADIATOR NOW. DRAINED WATER COMPLETELY. REMOVED EXPANSION TANK AND REPLACED WITH NEW ONE. REPLACED COOLANT FILTER ALSO. FILLED SYSTEM UP WITH COOLANT. RUN UNIT OVER TO WASH BAY TO STEAM CLEAN EVERYTHING OFF. RUN BACK OVER TO RECHECK FLUIDS AND TOP OFF. UNIT NEEDS TEST DRIVEN AND COOLANT RE-CHECKED YET. TEST DRIVE UNIT, RUNS GOOD. CHECK FLUID LEVELS AND FOR ANY LEAKS. ALL OK AT THIS TIME.

TOTAL LABOR
TOTAL PARTS
TOTAL FREIGHT

Qty	Part Number	Desc	List	Unit	Extended

CUSTOMER SIGNATURE

AUTHORIZED DEALERSHIP REPRESENTITIVE SIGNATURE

DATE

Invoice Date: 07-08-22

Work Order
IT41505

Year	Make / Model	VIN	License	Mileage	Unit / Stock	Color
2012	Volvo / VNL	4V4NC9EH3CN544813	[redacted]	1	[redacted]	

Open Date / Time	Delivery Date	Complete	Engine Hours	Key Tag	Service Writer	P.O. Number
06-18-22 / 01:08PM		06-27-22	0.0		[redacted]	

Engine Model / Serial #	Transmission Model/Serial #	Rear Axle Model / Serial #
D13 / D13/963863	1100107148 / 1100107148	/

Memo

3	23254673	INSULATOR	[redacted]
1	877071	3" 36GR	
1	877061	3/" 60GR	
2	996457	FLANGE SC	
2	990941	FLANGE NU	
2	450830	M8X1.25X3	
4	453510	M10 FW	
2	454508	M8 LW	
6	373907	7/16 SAE	

2 AIR LEAK POSSIBLY COMING FROM LEVELING VALVE. CHECK AND ADVISE
CAUSE: air leak
CORRECTION:
air leak is from leveling valve and the rod is bent
when unit dumps all air out of trucks suspension it is not resting
down in normal position due to 2nd drive line carrier bearing to power
divider slip joint seized up causing it to stay to high even on ride
height and then intermediate drive shaft slip joint is started to
swell up and cause the same issue the intermediate drive shaft will
need replaced and 2nd drive shaft will need rebuilt.
installed new valve zip tied up all air lines adjusted ride height
several time due to it being severely off installed leveling valve rod
in middle adjustment on lower cross beam and adjusted it down on the
frame bracket so if it ever needs adjustment it will have enough to
adjust it at lower cross frame for leveling rod.

TOTAL LABOR [redacted]
TOTAL PARTS

Qty	Part Number	Description	List	Unit	Extended
1	85144423	KIT	[redacted]		
1	22379948	CONTROL R			

3 OIL LEAK FROM REAR OF ENGINE. CHECK AND ADVISE.
CAUSE: oil leak
CORRECTION: found upper timing cover leaking down the side of trans to
bottom of the flywheel housing. unit will need updated cover and cam
sensor due to leaking as well as valve cover gaskets.

TOTAL LABOR [redacted]

4 INSTALL 45 DEGREE GREASE ZERKS AT THE TIP OF THE KINGPIN
CAUSE: grease zerks

[redacted]

CUSTOMER SIGNATURE AUTHORIZED DEALERSHIP REPRESENTATIVE SIGNATURE DATE

Invoice Date: 04-30-20

Work Order

IT34537

Year	Make / Model	VIN	License	Mileage	Unit / Stock	Color
2012	Volvo / VNL	4V4NC9EH3CN544813			4813	

Open Date / Time	Delivery Date	Complete	Engine Hours	Key Tag	Service Writer	P.O. Number
03-11-20 / 05:49PM	06-28-11	04-20-20				

Engine Model / Serial #	Transmission Model/Serial #	Rear Axle Model / Serial #
D13 / D13/963863	1100107148 / 1100107148	/

Memo	

SLS-SVC CUST LABOR
SLS-PTS P&A RO MECH
OTHER SUPPLIES-SVC
FREIGHT-PTS
SALES TAX
186510 CASH 30,483.90

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 CCCCCCC     000000     DDDDDDD
CCC   CCC   00000000   DDDDDDDD
CCC        000   000  DDD   DDD
CCC        000   000  DDD   DDD
CCC   CCC   00000000   DDDDDDDD
 CCCCCCC     000000     DDDDDDD
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CUSTOMER SIGNATURE AUTHORIZED DEALERSHIP REPRESENTITIVE SIGNATURE DATE

CUSTOMER INVOICE
Work Order
IT34537
Invoice Date: 04-30-20

Year	Make / Model	VIN	License	Mileage	Unit / Stock	Color
2012	Volvo / VNL	4V4NC9EH3CN544813	[redacted]	763147	4813	

Open Date / Time	Delivery Date	Complete	Engine Hours	Key Tag	Service Writer	P.O. Number
03-11-20 / 05:49PM	06-28-11	04-20-20			[redacted]	

Engine Model / Serial #	Transmission Model/Serial #	Rear Axle Model / Serial #
D13 / D13/963863	1100107148 / 1100107148	/

Memo

1 OIL IN THE COOLANT CHECK AND ADVISE
CAUSE:
LINER CAVITATION AND O RING FAILURE
CORRECTION:
BROUGHT UNIT IN AND STARTED LOOKING FOR ANY OBVIOUS SIGNS OF FAILURE. COOLANT HAS THICK OIL IN RESERVOIR. RESERVOIR IS APPROX. 15 MONTHS SINCE REPLACEMENT AND SHOWS SIGNS OF BULGING AND SEVERE DISCOLORATION. REMOVED AIR FILTER HOUSING AND AIR INTAKE. HOOKED UP WATER BOTTLE TO PRESSURE RELEASE HOSE AND RUN ENGINE AT HIGH IDLE TO CHECK FOR HEAD/GASKET ISSUES. DID FIND REALLY SMALL BUBBLES THAT ONLY APPEARED WHEN ACCELERATED FULLY. BUBBLES HAD THE APPEARANCE OF FIZZ IN THE WATER. CONFERRED WITH JON ABOUT FINDINGS SO FAR, HE ASKED ME TO HOOK A PRESSURE GAUGE UP TO THE COOLANT RESERVOIR AND CHECK THE PRESSURE AT HIGH IDLE OR FULL ACCELERATION. RUN UNIT OUTSIDE AND SET IT TO FULL ACCELERATION. WAITING ON RESULTS AT THIS TIME. CALLED KEVIN AT NATT THIS MORNING, GAVE HISTORY ON UNIT AND WHAT HAS BEEN CURRENTLY DONE AND TESTED. HE FEELS THAT LINER CAVITATION IS CAUSING THE OIL IN COOLANT ISSUE.

TOTAL LABOR [redacted]

2 REPLACE REAR DRIVE AXLE BRAKES AND CHECK DRUMS
CAUSE:
REAR AXLE BRAKES CRACKED
CORRECTION:
INSPECTED BRAKES AND FOUND THAT THEY ARE CRACKED. ALSO THE DRUMS ARE HEAT CRACKED. REPLACE REAR DRIVE AXLE BRAKE SHOES AND DRUMS.

TOTAL LABOR [redacted]

CUSTOMER SIGNATURE

AUTHORIZED DEALERSHIP REPRESENTATIVE SIGNATURE

DATE

Invoice Date: 07-08-22

Work Order

IT41505

Year	Make / Model	VIN	License	Mileage	Unit / Stock	Color
2012	Volvo / VNL	4V4NC9EH3CN544813	[redacted]	1	4813	

Open Date / Time	Delivery Date	Complete	Engine Hours	Key Tag	Service Writer	P.O. Number
06-18-22 / 01:08PM		06-27-22	0.0		[redacted]	

Engine Model / Serial #	Transmission Model/Serial #	Rear Axle Model / Serial #
D13 / D13/963863	1100107148 / 1100107148	/

Memo

Qty	Part Number	Description	List	Unit	Extended
8	85107600	SCREW	[redacted]		
1	85142310	PROPELLER			
		SHOP SUPPLIES	[redacted]		
		ENVIRONMENTAL FEE			
		SLS-SVC CUST LABOR	[redacted]		
		SLS-PTS P&A RO MECH			
		OTHER SUPPLIES-SVC			
		SALES TAX			
	186510	CASH			6,103.89

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 CCCCCCC     OOOOOO     DDDDDDD
CCC   CCC   OOOOOOOO   DDDDDDDD
CCC         OOO   OOO  DDD   DDD
CCC         OOO   OOO  DDD   DDD
CCC   CCC   OOOOOOOO   DDDDDDDD
 CCCCCCC     OOOOOO     DDDDDDD
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WHEEL LUG NUTS NEED RETOURQUED AFTER 100 MILES.

CUSTOMER SIGNATURE

AUTHORIZED DEALERSHIP REPRESENTATIVE SIGNATURE

DATE

CUSTOMER INVOICE
Work Order
IT38232
Invoice Date: 05-27-21

Year	Make / Model	VIN	License	Mileage	Unit / Stock	Color
2012	Volvo / VNL	4V4NC9EH3CN544813	[redacted]	821102	4813	

Open Date / Time	Delivery Date	Complete	Engine Hours	Key Tag	Service Writer	P.O. Number
05-12-21 / 02:37PM		05-26-21			[redacted]	

Engine Model / Serial #	Transmission Model/Serial #	Rear Axle Model / Serial #
D13 / D13/963863	1100107148 / 1100107148	/

Memo	

1 TRANSMISSION WON'T SHIFT PROPERLY CODES
CAUSE:
TRANSMISSION INTERNAL FAILURE.
CORRECTION:
CHECKED CODES. FOUND UNIT HAS CODES FOR THE BRIDGE CABLE AND INPUT SHAFT SPEED FIRST AND REVERSE ENGAGEMENT AND 2 AND 3 ENGAGEMENT. RAN TEST ON ENGAGEMENT ISSUE AND CLUTCH TEST AND IT FAILED ENGAGEMENT TEST AND CLUTCH TEST WAS OK NEEDS A TRANSMISSON REPLACED HAS INTERNAL ISSUES FURTHER IN TRANSMISSION. BROUGHT UNIT IN TO SHOP. REMOVED DRIVE LINE AND PTO. REMOVED CABLES AND ELECTRICAL CONNECTIONS. PULLED BELL HOUSING BOLTS THEN REMOVED TRANSMISSION FROM TRUCK. STARTED SWAPPING PARTS FROM OLD TRANSMISSION TO USED TRANSMISSION HAD TO ORDER SOME GASKETS. SWAPPED THE TECU THEN FOUND THE OIL FILTER HOUSING WOULD NOT WORK BECAUSE THE FITTINGS WERE DIFFERENT FOR THE PTO. SWAPPED FILTER HOUSING TO USED TRANSMISSION INSTALLED NEW FILTER. FOUND THE SEAL IN THE PTO THAT THE SPRING HAD CAME APART SO SENT PTO OUT TO HAVE THE SEAL REPLACED. INSTALLED NEW FLYWHEEL AND CLUTCH IN TRUCK. INSTALLED TRANSMISSION INTO TRUCK. REINSTALLED DRIVE LINE, CABLES AND ELECTRICAL CONNECTIONS. INSTALLED PTO IN TRUCK. FILLED TRANSMISSION THEN CALIBRATED CLUTCH AND TRANSMISSION. RAN UNIT AROUND THE LOT PUULED BACK IN THEN RECHECKED FOR ANY LEAKS, NO LEAKS TOPPED OFF FLUID LEVEL. SENT UNIT ON ROAD TEST THEN RECHECKED UNIT FOR LEAKS AND FLUID LEVEL.

TOTAL LABOR
TOTAL PARTS
TOTAL FREIGHT

Qty	Part Number	Description	List	Unit	Extended

Invoice Date: 04-30-20

Work Order

IT34537

Year	Make / Model	VIN	License	Mileage	Unit / Stock	Color
2012	Volvo / VNL	4V4NC9EH3CN544813			4813	

Open Date / Time	Delivery Date	Complete	Engine Hours	Key Tag	Service Writer	P.O. Number
03-11-20 / 05:49PM	06-28-11	04-20-20				

Engine Model / Serial #	Transmission Model/Serial #	Rear Axle Model / Serial #
D13 / D13/963863	1100107148 / 1100107148	/

Memo

1	20824906	OIL PUMP
1	20541940	SEALING S
1	85132267	OIL COOLE
1	85138502	ENGINE OV
20	26683	TIE 3/16X
1	20541940	SEALING S
1	22275838	SEALING R
5	21092243	SEALING R
1	24027	PERMATEX
1	22275838	SEALING R
1	21508089	COVER
6	21509801	YOKE
1	85020273	CYLINDER
1	20523738	COVER
1	22422785	SENSOR
2	20551483	SEALING R
1	20430678	RUBBER MO
1	1547252	SEALING R
1	975697	O-RING
1	21021925	CONNECTIO
2	1547254	SEALING R
1	21434720	CONNECTIO
1	20542204	HOSE
1	21599158	OIL RETUR
2	502612	#12 HD SI
7	471626	RUBBER MO
2	1547253	SEALING R
1	1547252	SEALING R
1	21532258	SEALING R
1	994441	FLANGE SC
1	20550690	CHARGE AI
1	82194	ULTRA GRE
2	AXC0734	BRAKE CLE
1	85143382	INJECTOR
1	21715813	AIR FILTE
1	33721	Spin-On F
1	33651MP	Cartridge
2	51791MP	LUBE FILT
1	51660	Spin-On L
40	1300CJ4QT	DELVAC MO
1	WASH	WINDSHIEL
1	229	ULTRA RED
5	1677347H	shim

CUSTOMER INVOICE
Work Order
IT41505
Invoice Date: 07-08-22

Year	Make / Model	VIN	License	Mileage	Unit / Stock	Color
2012	Volvo / VNL	4V4NC9EH3CN544813	[redacted]	1	4813	

Open Date / Time	Delivery Date	Complete	Engine Hours	Key Tag	Service Writer	P.O. Number
06-18-22 / 01:08PM		06-27-22	0.0		[redacted]	

Engine Model / Serial #	Transmission Model/Serial #	Rear Axle Model / Serial #
D13 / D13/963863	1100107148 / 1100107148	/

Memo

1 MULTIPLE TANK STRAPS FOR FAIRINGS BROKEN. CHECK AND ADVISE
CAUSE: fuel tank straps
CORRECTION: removed rear fuel tank fairings and found both middle position fuel
tank straps are broken inspected the rest of straps all are in good condition.
removed broken tank straps had to heat top bolts with torch to get them out also had to heat the t that the bolt goes through to get the bolt out to install in new straps cleaned up bolts with wire wheel used anti seize on bolts installed new straps with new insulators installed left side faring and got it all adjusted went to right side to get it installed and adjusted and rear bracket would not even let the fairing close tried taking it apart to fix it the best i could and it just deuterated and all bolts broke.
cut weld on bracket so i could remove swollen rust jacket between the two metals got everything straightened out and rewelded and painted bracket let paint dry installed bracket on right rear fairing fuel tank strap hung fairing and adjusted bracket removed fairing and tightened up bracket where it needed to be installed fairing also installed safety strap on right front fairing.

TOTAL LABOR [redacted]
TOTAL PARTS

Qty	Part Number	Description	List	Unit	Extended
2	21487084	STRAP	[redacted]		
4	23254684	INSULATOR			
1	23254682	INSULATOR			

PLEASE SEE REVERSE SIDE FOR ADDITIONAL

CUSTOMER SIGNATURE

AUTHORIZED DEALERSHIP REPRESENTATIVE SIGNATURE

DATE

Invoice Date: 05-27-21

Work Order

IT38232

Year	Make / Model	VIN	License	Mileage	Unit / Stock	Color
2012	Volvo / VNL	4V4NC9EH3CN544813	[redacted]	821102	4813	

Open Date / Time	Delivery Date	Complete	Engine Hours	Key Tag	Service Writer	P.O. Number
05-12-21 / 02:37PM		05-26-21			[redacted]	

Engine Model / Serial #	Transmission Model/Serial #	Rear Axle Model / Serial #
D13 / D13/963863	1100107148 / 1100107148	/

Memo

3	20852765	seal	[redacted]
1	GENATO2612DUSD	TRANS	
1	85021773	FLYWHEEL	
1	85002560	CLUTCH KI	
1	20785252		
1	20779040	OIL FILTE	
1	20483578		
1	PTO55342	RESEAL	
2	NBSN331L	16-14 BUT	
5	MVBVISHIFT75W80PAIL	VOLVO I-S	
8	85107600	SCREW	
7	26682	TIE 5/16X	
12	26683	TIE 3/16X	
1	27920	4GA 1/4 M	
1	26984	1/2X6 SHR	
1	FREIGHT		

	SHOP SUPPLIES	[redacted]
	ENVIRONMENTAL FEE	

- -

	SLS-SVC CUST LABOR	[redacted]
	SLS-PTS P&A RO MECH	
	OTHER SUPPLIES-SVC	
	FREIGHT-PTS	
	SALES TAX	
186510	CASH	13,793.01

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  CCCCCCC     OOOOOO     DDDDDDD
 CCC   CCC   OOOOOOOO    DDDDDDDD
CCC         OOO    OOO  DDD    DDD
CCC         OOO    OOO  DDD    DDD
 CCC   CCC   OOOOOOOO    DDDDDDDD
  CCCCCCC     OOOOOO     DDDDDDD
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[redacted]

CUSTOMER SIGNATURE

AUTHORIZED DEALERSHIP REPRESENTATIVE SIGNATURE

DATE

Invoice Date: 04-30-20

Work Order
IT34537

Year	Make / Model	VIN	License	Mileage	Unit / Stock	Color
2012	Volvo / VNL	4V4NC9EH3CN544813	[redacted]		4813	

Open Date / Time	Delivery Date	Complete	Engine Hours	Key Tag	Service Writer	P.O. Number
03-11-20 / 05:49PM	06-28-11	04-20-20			[redacted]	

Engine Model / Serial #	Transmission Model/Serial #	Rear Axle Model / Serial #
D13 / D13/963863	1100107148 / 1100107148	/

Memo	

TOTAL PARTS 269.81

Qty	Part Number	Desc	List	Unit	Extended
6	7485	3IN SCOTC			
3	AXC0734	BRAKE CLE			
2	NBFMKIT-4709EN/S	SHOE BOX			
2	3922X	DRUM			
1	333B	WHEEL NUT			

3 PERFORM ENGINE OVERHAUL.
CAUSE:
ENGINE OVERHAUL
CORRECTION:
DRAINED OIL AND COOLANT. STARTED REMOVING EGR COMPONENTS AND BRACKETRY. REMOVED CHARGE AIR PIPING. TURBO BY-PASS CONNECTION IS RUSTED AND CANNOT BE SEPARATED WITHOUT DAMAGE, LINE AND FITTING TO VALVE NEED REPLACED. REMOVED TURBO, EGR VALVE AND HOT PIPE, EGR COOLER AND INTAKE PIPING AND HEATER AND ROCKER COVER. REMOVE ROCKER SHAFT ASSEMBLY AND INSPECTED, DID NOT SEE ANY OBVIOUS ISSUES. REMOVED INJECTORS, THE CRAB HOLD DOWNS ON #3 AND #5 WERE BROKEN AND BOTH INJECTORS HAD RUST BUILDUP ON THEM. FOUND BROKEN PIECES OF CRAB HOLD DOWNS NEAR EACH RESPECTIVE CYLINDER AND RECOVERED THEM. STARTED REMOVAL OF CAMSHAFT. REMOVE CAM BEARING CAPS, TOP TIMING COVER, CAM GEAR AND CAMSHAFT. FINISH REMOVING SMALL COMPONENTS TO BE ABLE TO REMOVE CYLINDER HEAD. REMOVE CYLINDER HEADBOLTS AND HEAD. INSPECTED CYLINDER HEAD AND FOUND #3 AND #5 EXHAUST VALVES (CAM SIDE) BURNT. GOT WITH JON TO INSPECT AS WELL. JON HAD ME REMOVE VALVES IN QUESTION TO INSPECT THE VALVE SEATS. CYLINDER HEAD NEEDS REPLACED/REMANED. PUT VALVES BACK IN CYLINDER HEAD. STARTED REMOVAL OF OIL COOLER. REMOVED ENGINE OIL COOLER HOUSING, SEPARATED OIL COOLER FROM HOUSING. HAD JON TAKE A LOOK AT COMPONENTS AND THIS UNIT NEEDS HOUSING UPDATE WITH NEW OIL COOLER AND SHIELD. CLEANED RIGHT SIDE OF ENGINE. PUT CYLINDER HEAD ON PALLET AWAITING FURTHER INSTRUCTIONS BASED ON APPROVAL. REMOVED OIL PAN, SUMP AND OIL CROSSOVER TUBES. REMOVED BLOCK STIFFENER PLATE. CLEANED UNDERNEATH AND AROUND UNIT. READY TO PULL PISTONS AND LINERS. STARTED PULLING PISTONS AND LINERS. GOT PULLED TO ANOTHER JOB. FINISHED REMOVING PISTONS AND LINERS. HAVING JON ALSO TAKE A LOOK AT LINER SEALS. APPEARS TO HAVE FAILURE ON CYLINDERS 2-5. GETTING BLOCK PREPPED FOR OVERHAUL. CLEANED AND PREPPED ENGINE BLOCK DECK AND CYLINDER BORES. THERE IS CLEAR EVIDENCE OF OIL GETTING INTO THE COOLANT THROUGH THE LINER SEALS FAILING IN CYLINDERS 3, 4 AND 5. PREPPED NEW LINERS AND MEASURED LINER PROTRUSION, ALL LINERS ARE IN

CUSTOMER SIGNATURE | AUTHORIZED DEALERSHIP REPRESENTITIVE SIGNATURE | DATE