

Repair Invoice

Engine Oil Cooler

DATE	CUSTOMER ORDER NO.	DATE IN SERVICE	ENGINE MODEL	PUMP NO.	EQUIPMENT MAKE
17-FEB-2015		28-APR-2006	ISX 400		VOLVO
CUSTOMER NO.	SHIP VIA	FAIL DATE	ENGINE SERIAL NO.	CPL NO.	EQUIPMENT MODEL
		06-FEB-2015	79169245	CPL852000	VNL SERIES
REF. NO.	SALESPERSON	PARTS DISP.	MILEAGE/HOURS	PUMP CODE	UNIT NO.
130014	7216		1077646		006

QUANTITY ORDERED	BACK ORDERED	QUANTITY SHIPPED	PART NUMBER	DESCRIPTION	PRODUCT CODE	UNIT PRICE	AMOUNT
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OSN/MSN/VIN 7N440337

COMPLAINT

OIL IN RADIATOR OVER FLOW TANK
NO HEAVY SMOKE
STARTED TO DERATE
SURGE AT IDLE
CRUISE CONTROL INOPTJAKE WORKS OK

CAUSE

FOUND ENGINE OIL COOLER FAILED, FOUND EGR COOLER FAILED PRESSURE TEST AS WELL.
REPLACED FACTORY EXHAUST PIPE AS WELL
NO PROBLEM FOUND WITH CRUISE CONTROL ON OUR SIDE
FOUND DAMAGED FUEL HOSE FOR ROUGH IDLE COMPLAINT
NOTE TRANSMISSION COOLER LEAKING--CUSTOMER WILL FIX ON HIS OWN

CORRECTION

21093 2/6.... PULLED UNIT IN AND GOT INFO, STEAMED OFF AND STARTED TEAR DOWN TO T/S OIL IN COOLANT. GOT PULLED AWAY TO HELP CHRIS. FENDERS, HOOD LATCH, INTAKE AND CAC PIPES, AIR FILTER, HEAT SHIELD, TURBO, NEED TO FINISH TEAR DOWN AND TEST OIL COOLER.

2/7... REMOVED EGR VALVE, EXHAUST MANIFOLD (COULDN'T REMOVE STUDS), EGR COOLER- FULL OFF COOLANT- PRESSURE TESTED AND FAILED. OIL COOLER-PRESSURE TESTED AND FAILED ALSO. GOT PARTS QUOTE BUILT AND TALKED WITH CUSTOMER SINCE HE WAS HERE. GOT APPROVAL. CLEANED SURFACES AND WENT TO GET PARTS- DO NOT HAVE OIL COOLER HSG GASKET. PICKED UP TOOLS GOT OFF JOB. ***H/U FOR EXHAUST PIPE FROM VOLVO AND HSG GASKET***

26133 2/0 INSTALLED OIL COOLER HOUSING, OIL FILTER, EGR COOLER AND PLUMBING, EXHAUST MANIFOLD, EGR VALVE, EGR LINES. EXHAUST HEAT SHIELD, COOLANT HEATER HOSE LINE.
26125 INSTALLED TURBO AND ALL THE OIL, COOLANT, AIR LINES, CONNECTED ELECTRICAL CONNECTORS, FILLED WITH DAWN AND WATER AND FLUSHED SYSTEM 3 TIMES THERE IS STILL SOME OIL COMING OUT OF IT, WILL HAVE TO FLUSH IT COUPLE MORE TIMES IN THE MORNING THERE IS ONLY WATER IN IT

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8494939		06-FEB-2015	79169245	CPL852000	VNL SERIES
REF. NO.	SALESPERSON	PARTS DISP.	MILEAGE/HOURS	PUMP CODE	UNIT NO.
130014	7216		1077646		006

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OSN/MSN/VIN

7N440337

NOW,ALSO WILL NEED A COOLANT FILTER AND INNER FENDER INSTALLED
26125 FLUSHED SYSTEM COUPLE OF MORE TIMES,FILLED WITH COOLANT AND
INSTALLED NEW COOLANT FILTER,FINISHED INSTALLING FAIRING AND INNER
FENDER PULLED OUTSIDE AND CLEANED BAY AND PICKED UP TOOLS

26125 GOT ON THE JOB CHECK FOR FAULTS AND PERFORMED CUT OUT
TEST,ALSO TESTED FOR FUELING ACTUATORS AND TRUCK STILL RAN WITH A
MISS,HAD TO CUT OFF FUEL INLET LINE IN OREDR TO REMOVE IT AND CHECK
FOR AIR ENTERING FUEL SYSTEM,TRUCK RAN BETTER BUT NOW I HAVE TO
WAIT ON NEW FUEL LINE FROM NAPA IN ORDER TO CHECK WHERE AIR IS
ENTERING FUEL SYSTEM,ALSO FOUND THAT TRUCK HAS A COOLANT LEAK
FROM TRANSMISSION,TRANSMISSION COOLER IS BROKEN I CALLED AND LET
CUSTOMER KNOW HE WILL FIX THAT ON HIS OWN

26125 INSTALLED NEW FUEL LINE AND CHECKE FOR AIR ENTERING FUEL
SYSTEM NO AIR FOUND IN FUEL AND TRUCK RUNS BETTER,ALSO CHECKED
FOR CRUISE CONTROL FUSSES AND FEATURES AND
PARAMETERS,EVERYTHING IS GOOD SO IT MUST BE OEM ISSUE,ALSO NEEDS
TO BE TOPPED OFF ON COOLANT BEFORE IT LEAVES

CUSTOMER BILLABLE

*****THANK YOU FOR YOUR BUSINESS*****

COVERAGE
REMARK

--NOTE CUSTOMER WILL REPAIR TRANS COOLER ISSUE ON HIS OWN. NO
PROBLEM FOUND WITH CRUISE CONTROL ON CUMMINS SIDE.--

1	1	2892304	COOLER,OIL	CECO
4	4	4966084	SEAL,O RING	CECO
1	1	LF9080	PAC, LF	FLG
1	1	4309434RX	KIT,EXH RCN COOLER	DRC
1	1	2878071D	COOLER, EGR	CLEAN

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OSN/MSN/VIN		7N440337					
-1		-1	2878071D	COOLER, EGR	DIRTY		
4		4	3682710	GASKET, EXHAUST MANIFOLD	CECO		
1		1	3682940	GASKET, EXHAUST MANIFOLD	CECO		
1		1	3104229	GASKET, EXH GAS RCN VALVE	CECO		
1		1	3101268	GASKET, FLANGE	CECO		
3		3	CC36077	OAT	FLG		
1		1	CC2638	CHEM. PKG.	FLG		
2		2	3682826	SEAL, GROMMET	CECO		
1		1	20779649	VOLVO EXH PIPE	OTHER		
4		4	4101867	SCREW, TWELVE POINT CAP	CECO		
1		1	4376196	KIT, OIL COOLER REPAIR	CECO		
1		1	CM4484	4" & 5" EXH BAND AID CLAMP	OTHER		
1		1	WF2127	PAC, WF	FLG		
4		4	CC36073	OAT	FLG		

PARTS:	2,369.67
PARTS COVERAGE CREDIT:	0.00 CR
TOTAL PARTS:	2,369.67
SURCHARGE TOTAL:	0.00
LABOR:	3,497.70
LABOR COVERAGE CREDIT:	0.00 CR
TOTAL LABOR:	3,497.70
MISC.:	320.33

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OSN/MSN/VIN 7N440337

MISC. COVERAGE CREDIT: 0.00 CR
TOTAL MISC.: 320.33
INSITE OR INPOWER CHARGE 65.00
HAZ WASTE CHARGE 34.98
MISC SHOP SUPPLY AUTOMATI 220.35

TAX EXEMPT NUMBERS: MO

465440713

TAXES:

LOCAL 119.81
STATE 113.65

SUB TOTAL: 6,187.70
TOTAL TAX: 233.46
TOTAL AMOUNT: US \$ 6,421.16

DATE

Repair Invoice

Engine Overhaul

DATE	CUSTOMER ORDER NO.	DATE IN SERVICE	ENGINE MODEL	PUMP NO.	EQUIPMENT MAKE
24-MAR-2014		28-APR-2006	ISX 400		VOLVO
CUSTOMER NO.	SHIP VIA	FAIL DATE	ENGINE SERIAL NO.	CPL NO.	EQUIPMENT MODEL
8458724		05-MAR-2014	79169245	CPL852000	VNL SERIES
REF. NO.	SALESPERSON	PARTS DISP.	MILEAGE/HOURS	PUMP CODE	UNIT NO.
122386	21094		1007945		2119

QUANTITY ORDERED	BACK ORDERED	QUANTITY SHIPPED	PART NUMBER	DESCRIPTION	PRODUCT CODE	UNIT PRICE	AMOUNT
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OSN/MSN/VIN 7N440337

COMPLAINT

NEED QUOTE FOR OVER HAUL.
THIS IS FOR JUST A BASIC OVER HAUL, IN ORDER TO GET A NOW WARRANTY 2 OR 3 YEARS YOU HAVE TO GO WITH A CYLINDER HEAD TO MOVE OVERHAUL.

CAUSE

CORRECTION

(3-5) B970751-21066=DID JSA HAD TO TOW UNIT INTO SHOP WILL NOT START ALSO DISABLED. CLEANED WORK AREA. DISCONNECTED BATTS THEN LIGHTS REMOVED BUMPER AND HOOD. RECOVERED A/C AND DISCONNECTED REMOVED BELTS. REMOVED A/C COMP. REMOVED WIRING HARNESS FROM PASS SIDE. REMOVED FENDER AND HOOD SUPPORT. REMOVED CAC PIPES AND COOLANT PIPES FROM RAD ASSY. WAS ONLY ABLE TO GET ON TRANS LINE UNDONE. ON THE OTHER LINE THE SAFTY KEEPER IS SEIZED TO LINE AND BROKE OFF.
21093 3/6.... DID JSA AND HAD TO HEAT UP LINE TO REMOVE, UNHOOKED RADIATOR AND REMOVED, FAN, BELTS, FAN HUB, FRONT COVER, VALVE COVER, ROCKERS, INJECTORS, FOUND INJECTOR CAM IS BAD- ADVISED AND PUT ON QUOTE, REMOVED INTAKE, IFSM, CAMS, TURBO, HEAD. CLEANED BLOCK. DRAIN OIL. READY TO DROP PAN AND DISASSEMBLE.

(3-7) B970751-21066=DID JSA. REMOVED LOWER COOLANT HOSE. REMOVED OIL PAN, SUC TUBE, STIFFNER PLATE, LUBE PUMP, PISTON COOLERS, AND PISTON ASSY. CLEANED BLOCK DECK MEASURED LINER POTRUSION ALL IN SPEC. CLEANED UP

21093 3/7... DID JSA AND REMOVED LINERS, REPLACED MAIN BEARINGS, CLEANED BLOCK, CONNECTING RODS, ASSEMBLED NEW PISTONS AND INSTALLED #1 AND #6- TORQUED &TURNED.

(3-7) B970751-21066=DID JSA FINISHED INSTALLING PISTONS. INSTALLED PISTON COOLING NOZZLES AND STIFFNER PLATE. GOING TOGETHER.

21093 3/8... DID JSA AND GOT PARTS, REMOVED WATER PUMP, CLEANED AND INSTALLED NEW ONE-TORQUED. GOT NEW HEAD AND REMOVED FROM BOX.

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8458724				05-MAR-2014	79169245	CPL852000	VNL SERIES	
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122386		21094			1007945		2119	
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OSN/MSN/VIN

7N440337

REMOVED EXHAUST MANIFOLD, CLEANED BOLTS AND WENT TO INSTALL ON NEW HEAD- GOT NEWS WERE NOT APPROVED FOR HEAD OR CAM-GOT PULLED OFF

21093 3/11.... DID JSA AND HAD TO DRILL OUT EXHAUST MANIFOLD BOLT, KING SERTED HOLE. STARTED CLEANING OFF HEAD- WAS TOLD TO SEND HEAD OUT. FINISHED CLEANING AND PUT ON PALLET IN BACK- BOXED UP NEW HEAD AND PUT IN BACK. CLEANED UP.

(3-13) B970751-21066= DID JSA. HAD TO FIND NEW HEAD. WAS IN CORE PILE. MOVED NEW HEAD TO JOB. (WAS ASKED TO LOAD A TRUCK ON A LOW BOY ON THIS WORK ORDER) PICKED NEW HEAD OUT OF BOX AND SET ON TABLE. HAD TO FIND OLD HEAD FOUND IN CORE BIN REMOVED AIR COMPRESSOR PLUG AND SOME MOUNTING BOLTS. MOCKED UP NEW HEAD. CLEANED HEAD BOLT HOLES AND BLOCK. CLEANED NEW HEAD. INSTALLED HEAD GASKET AND INSTALLED NEW HEAD. READY FOR HEAD BOLTS.

21093 3/14.... DID JSA AND INSTALLED HEAD BOLTS- TORQUED AND TURNED. GOT HELD UP FOR 2 HOURS WAITING ON PARTS. CLEANED PARTS, INSTALLED CAMS, CAM PLATES, INSTALLED GEARS AND SET TIMING. FRONT COVER, THERMOSTAT HOUSING, EXHAUST MANIFOLD, WATER PIPING, FRONT COVER BRACES. CLEANED UP BAY.

21093 3/15... FINISHED EXHAUST SIDE, BUILT UP INTAKE SIDE, REMOVED AIR COMPRESSOR AND SWAPPED FITTINGS, INSTALLES NEW COMPRESSOR, INSTALLED INJECTORS-TORQUED, ROCKERS-TORQUED AND TURNED- SET OVERHEAD, OIL PUMP- CHECKED BACKLASH- IT IS WITHIN SPEC. COULD NOT FIND OIL PICK UP- HAD TO CALL JOHN B. CLEANED AND INSTALLED P/U AND PAN-TORQUED. CLEANED UP.

21093 3/18... INSTALLED FAN HUB, A/C COMPRESSOR, BELTS, FAN, RAD ASSEMBLY, LOWER RAD PIPE, CAC PIPE, ALL COOLANT LINES, CHANGED ALL

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OSN/MSN/VIN

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FILTERS, FILLED WITH OIL, INSTALLED VALVE COVER. COULDNT FIND ONE VALVE COVER BOLT- CALLED OTHER TECH AND HE WASNT SURE WHERE IT WAS- GOT NEW ONE- TORQUED, GOT NEW DIPSTICK AND TUBE- OLD ONE WAS BROKEN OFF. CLEANED UP TRANSMISSION LINES FOR NEW KEEPERS, H/U ON ORINGS. INSTALLED HOOD LATCH TOWERS, AIR FILTER- NOTICED FILTER IS DIRTY ORDERED NEW ONE. FILLED WITH COOLANT AND KEYED ON- HAD CEL FOR EGR VALVE OUT OF CALIBRATION. ADVISED AND GOT OK TO REPLACE. DRAINED COOLANT REMOVED FILTER AND PIPING, REMOVED VALVE, SWAPPED WATER PIPE, INSTALLED NEW VALVE- FILLED WITH COOLANT, CHARGED A/C SYSTEM. WAITING ON AIR FILTER AND O-RINGS.

21093..STARTED TRUCK UP AND LET RUN TO GET AIR OUT OF SYSTEM. WAS IDLING ROUGH BUT UNDER THROTTLE IT WOULD CLEAR UP. PUT ON DYNO AND HEAD GRINDING AT 30-35 MPH. GOT OUT TO CHECK IF DRIVESHAFT ANGLE WAS TOO EXCESSIVE-IT WAS GOOD. TALKED WITH SENIOR TECH AND SAID CHECK POWER DIVIDER. FOUND AIR LINE TO PWER DIVIDER WAS BROKEN OFF AND LETTING AIR OUT OF SYSTEM. TRIED TO REMOVE BRASS

COVERAGE

CUSTOMER BILLABLE

1	1	2881886	KIT,OVERHAUL	CECO
1	1	4089910RX	PUMP,WATER	DRC
1	1	3800495D	PUMP, WATER SIGNATURE 600	CLEAN
-1	-1	3800495D	PUMP, WATER SIGNATURE 600	DIRTY
1	1	4955591	SET, LOWER ENGINE GASKET	CECO
1	1	4309500NX	KIT,LUBE PUMP	DRC
1	1	3685865D	KIT, LUBE PUMP	CLEAN
-1	-1	3685865D	KIT, LUBE PUMP	DIRTY
1	1	FF2200	PAC, FF	FLG

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OSN/MSN/VIN		7N440337					
1		1	FF2203	PAC, FF	FLG		
1		1	LF9080	PAC, LF	FLG		
1		1	WF2127	PAC, WF	FLG		
12		12	773780	PREMIUM BLUE 15W40 1 GAL	VALVOLINE		
1		1	4101432	CAMSHAFT	CECO		
6		6	3680169	LEVER,ROCKER	CECO		
3		3	4902912	SENSOR,TEMPERATURE	CECO		
1		1	4962732RX	HEAD,CYL ISX	DRC		
1		1	3412280D	HEAD,CYL SIGNATURE 600	CLEAN		
-1		-1	3412280D	HEAD,CYL SIGNATURE 600	DIRTY		
3		3	3680953	SCREW,HEX FLANGE HEAD CAP	CECO		
1		1	4928594	SENSOR,PRESSURE	CECO		
4		4	3678506	SCREW,HEX FLANGE HEAD CAP	CECO		
1		1	20448331	HOSE	NONSTOCK		
1		1	3164276	CONNECTOR,ELECTRICAL	CECO		
3		3	3164291	TERMINAL,ELC CNR REPAIR	CECO		
2		2	3678786	SEAL,O RING	CECO		
1		1	3008400	GASKET,HYDRAULIC PUMP	CECO		
1		1	21500943	DIPSTICK & TUBE ASSY	NONSTOCK		
2		2	20787860	O'RING	OTHER		
2		2	VOSLTL15C	COLLAR	OTHER		

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OSN/MSN/VIN

7N440337

2	2	VOSLTL15LC	LOCK	OTHER
1	1	3100895	ISOLATOR, NOISE	CECO
1	1	AF26163-M	PAC, AF	FLG
6	6	CC36073	OAT	FLG
1	1	4955422RX	VALVE, EGR ISX02	DRC
1	1	3682954D	VALVE, EGR ISX02	CLEAN
-1	-1	3682954D	VALVE, EGR ISX02	DIRTY
1	1	4089985RX	ACTUATOR, ENFORCER METER	DRC
1	1	4002070D	ACTUATOR, TIMING HD-HPI	CLEAN
-1	-1	4002070D	ACTUATOR, TIMING HD-HPI	DIRTY
1	1	3376891	ADDITIVE, FLUORESCENT DYE	CECO

PARTS:	14,170.96
PARTS COVERAGE CREDIT:	0.00 CR
TOTAL PARTS:	14,170.96
SURCHARGE TOTAL:	0.00
LABOR:	9,662.50
LABOR COVERAGE CREDIT:	2,500.00 CR
TOTAL LABOR:	7,162.50
MISC.:	17,750.69
MISC. COVERAGE CREDIT:	0.00 CR
TOTAL MISC.:	17,750.69
INSITE OR INPOWER CHARGE	65.00
HAZ WASTE CHARGE	60.00

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OSN/MSN/VIN 7N440337

MISC SHOP SUPPLY AUTOMATI
CUSTOMER DOWN PAYMENT
INBOUND FREIGHT
SUBLET LABOR

193.39
18,449.08
~~130.00~~
250.00

WARRANTIES APPLIED: AUTO/IND DIST. WARR. SRV.

LOCAL - 159.44
STATE - 151.24

Repair Invoice

Increase Engine Horsepower
From 400HP to 500HP

DATE	CUSTOMER ORDER NO.	DATE IN SERVICE	ENGINE MODEL	PUMP NO.	EQUIPMENT MAKE
29-JUN-2010	SL4504		ISX		
CUSTOMER NO.	SHIP VIA	FAIL DATE	ENGINE SERIAL NO.	CPL NO.	EQUIPMENT MODEL
8001005		28-JUN-2010	79169245		
REF. NO.	SALESPERSON	PARTS DISP.	MILEAGE/HOURS	PUMP CODE	UNIT NO.
89669	2350		462948		

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COMPLAINT

RAISE HP TO 500, OPEN SPEED AND CRUISE TO 100, CHECK ACTIVE CODES AND CHECK AND ADVISE WITH ESTIMATE.

CORRECTION

BRAHLER COMING TO INSTALL TIRE

21015 RAISED HP TO 500/425 MAX I COULD GET AND 1650 FT LBS TORQUE. THERE WERE NO FAULTS.

1	1	3886395	6.2CALIBRATION SINGLE REG	CECO
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PARTS:

PARTS COVERAGE CREDIT:

TOTAL PARTS:

SURCHARGE TOTAL:

LABOR:

LABOR COVERAGE CREDIT:

TOTAL LABOR:

MISC.:

MISC. COVERAGE CREDIT:

TOTAL MISC.:

INSITE OR INPOWER CHARGE

TAX EXEMPT NUMBERS: MO

227-00854 EXP 102407 TAXES:

STATE

SUB TOTAL:	323.50
TOTAL TAX:	0.00
TOTAL AMOUNT: US \$	323.50

DATE