

2012 Volvo VNL
EK4502

Engine Repair Invoice

CUSTOMER #: 13143909
UNIT# 01774

25942H

INVOICE

DUPLICATE 1
PAGE 1

SERVICE ADVISOR

COLOR	YEAR	MAKE/MODEL	VIN	LICENSE	MILEAGE IN/ OUT	TAG	
	12	Volvo VNL	4V4NC9EJ8CN559830		1003993/1003999	N55983	
DEL DATE	PROD. DATE	WARR. EXP.	PROMISED	PO NO.	RATE	PAYMENT	INV. DATE
23JAN12 DD			01:30 25MAR21	NEED PO		CASH	25MAR21
R.O. OPENED		READY		OPTIONS:			
14:32 10MAR21		07:33 25MAR21					
LINE OPCODE TECH TYPE HOURS				LIST	NET	TOTAL	
A C/A SCR CODES							
99-000-0001 C/A SCR CODES							
18118CPHDT							

MASTER TECH ID: XX91773: INTERFACED UNIT WITH LAPTOP AND PRINTED FAULTS. FOUND ACTIVE FAULTS FOR SCR OPERATOR INDUCEMENT MODERATELY SEVERE, NOX LIMITS EXCEEDED DUE TO INSUFFICIENT REAGENT QUALITY. PERFORMED VISUAL INSPECTION OF VEHICLE. FOUND ENGINE HAS BEEN PUSHING COOLANT DUE TO OVER PRESSURIZATION OF COOLING SYSTEM AS EVIDENT BY VEHICLE ARRIVING WITH A LARGE AMOUNT OF COOLANT ON RECOVERY SIDE OF TANK AND A LOW COOLANT CONDITION ON RIGHT SIDE OF SURGE TANK. ALSO NOTED COOLANT IS VERY DARK. SUSPECT INJECTOR CUPS ARE LEAKING COMBUSTION INTO COOLING SYSTEM. PRESSURE TESTED INTAKE- FOUND EGR CROSS OVER PIPE LEAKING, RECOMMEND REPLACEMENT. PERFORMED COMPRESSION TEST- UNIT PASSED. PERFORMED CYLINDER BALANCE TEST- UNIT PASSED. RECOMMEND REPLACEMENT OF INJECTOR CUPS DUE TO UNIT PUSHING COOLANT. PERFORMED EGR FUNCTION TEST- UNIT PASSED. PERFORMED TURBO FUNCTION TEST- UNIT PASSED. REMOVED BOOST SENSOR AND INSPECTED. FOUND SENSOR TO BE CLEAR. REMOVED DPF HEAT SHIELDS AND PERFORMED VISUAL INSPECTION OF AFTER TREATMENT. FOUND DPF BASE IS DEVELOPING A CRACK AT DEF DOSING VALVE MOUNTING PLATE, RECOMMEND REPLACEMENT. UN MOUNTED DEF DOSING VALVE AND PEERED INTO DECOMP AREA. FOUND DECOMP AREA CLEAR. PERFORMED SCR START UP TEST- PUMP BUILT TO AND MAINTAINED PROPER SYSTEM PRESSURE FOR DURATION OF TEST. PERFORMED DEF DOSING VOLUME TEST- FOUND DEF VOLUME DISPENSED TO BE IN SPEC AS WELL AS DEF CONCENTRATION. REMOVED SCR OUTLET AND PEERED INTO OUTLET OF SCR. FOUND CONSIDERABLE CELL PLUGGING EVIDENT ON OUTLET OF SCR. SUSPECT SCR IS PLUGGING CAUSING EXHAUST GASES TO LINGER IN AFTER TREATMENT AND INFLUENCE A "HIGH NOX" SCENARIO. RECOMMEND REPLACEMENT OF SCR. UNIT SHOULD BE MONITORED IN REGEN FOLLOWING REPAIRS.

B CSA Check 22 Inspection
VLV-00-099-0006 CSA Check 22 Inspection

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DESCRIPTION	TOTALS
LABOR AMOUNT	
PARTS AMOUNT	
GAS, OIL, LUBE	
SUBLET AMOUNT	
MISC. CHARGES	
TOTAL CHARGES	
LESS AMOUNT	
SALES TAX	
PLEASE PAY THIS AMOUNT	

(SIGNED) DEALER, GENERAL MANAGER OR AUTHORIZED PERSON (DATE)

CUSTOMER SIGNATURE

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LINE OPCODE TECH TYPE HOURS						

C** R&R INJECTOR CUPS

99-000-0001 R&R INJECTOR CUPS
18066CPHDT

5 8192804 FLANGE SCREW
 5 276948 O-RING KIT
 1 85134750 SEALANT
 1 22618326 SEALANT
 1 20538793 SEALING STRIP
 1 20526428 SEALING RING
 2 1677370 SEALING RING
 1 21532258 SEALING RING
 1 85013611 UNIT INJECTOR, EACH
 CORE CHARGE C
 -1 85013611 CORE RETURN
 -6 8192804 FLANGE SCREW
 -6 276948 O-RING KIT
 -1 85134750 SEALANT
 -1 22618326 SEALANT
 -1 20526428 SEALING RING
 -2 1677370 SEALING RING
 -1 21532258 SEALING RING
 2 1677349 SHIM
 1 1547980 SHIM
 1 1677347 SHIM
 1 1547975 SHIM
 1 980881 CABLE TIE
 2 20538793 SEALING STRIP

PARTS: 1131.33 LABOR: 1350.00 OTHER: 0.00

TECH ID: XN04486 DRAINED COOLANT AND REMOVED MICS COMPONENTS TO
 ACCESS THE VALVE COVER. REMOVED VALVE COVER AND OVERHEAD ASSEMBLY.
 DRAINED FUEL OUT OF CYCLINDER HEAD THEN REMOVED AND INSPECTED

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 MISC. CHARGES
 TOTAL CHARGES
 LESS AMOUNT
 SALES TAX
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14:32 10MAR21	07:33 25MAR21					

LINE	OPCODE	TECH	TYPE	HOURS	LIST	NET	TOTAL
------	--------	------	------	-------	------	-----	-------

INJECTORS. FOUND #6 INJECTOR TO BE IN NEED OF REPLACEMENT. REMOVED INJECTOR CUPS AND CLEANED INJECTOR BORES. FOUND #1 AND # 2 INJECTOR BORES TO HAVE SEVIRE PITTING ON SEALING SURFACE FOR THE INJECTOR CUPS AND ADVISED HEAD REPLACEMENT. DECLINED. INSTALLED NEW INJECTOR CUPS THEN CLEANED SEALING SURFACES ON 1-5 INJECTORS AND INSTALLED NEW O-RINGS. INSTALLED NEW # 6 INJECTOR AND THE REST OF THE INJECTORS WITH NEW HOLD DOWN BOLTS. TORQUED TO SPEC. INSPECTED OVER HEAD ASSEMBLY AND TIGHTENED #3 AND #5 EXHAUST ROCKER PLUNGERS. SET OVERHEAD ASSEMBLY AND BEGAN TORQUING PROCEDURE. THE REAR MOST BOLT FOR OVERHEAD WILL NOT TORQUE. CYCLINDER HEAD NEEDS REPLACED.

D** R&R DPF BASE

99-000-0001 R&R DPF BASE

99CPHDT

PARTS:

0.00 LABOR 0.00 OTHER: 0.00

E** R&R EGR CROSS OVER PIPE

99-000-0001 R&R EGR CROSS OVER PIPE

18066CPHDT

2 967343 O-RING

1 85124530 HOSE KIT

1 21412085 TUBE

1 RDS20504408 EGR CLAMP

1 967343 O-RING

VOLVO OF CHEYE

TECH ID: XN04486 REMOVED EGR CROSS PIPE ASSEMBLY AND DIDASSEMBLED. PAINTED NEW PIPE THEN ASSEMBLED WITH NEW BOOT AND CLAMPS

F** R&R SCR BOX

99-000-0001 R&R SCR BOX

99CPHDT

PARTS:

0.00 LABOR: 0.00 OTHER:

G** RUN MONITORED REGEN

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PARTS AMOUNT

GAS, OIL, LUBE

SUBLET AMOUNT

MISC. CHARGES

TOTAL CHARGES

LESS AMOUNT

SALES TAX

PLEASE PAY THIS AMOUNT

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B.O. OPENED		READY						

R.O. OPENED

READY

OPTIONS:

14:32 10MAR21 07:33 25MAR21

LINE OPCODE TECH TYPE HOURS

LIST

NET

TOTAL

99-000-0001 RUN MONITORED REGEN

18193CPHDT

PARTS: 0.00 LABOR:

TECH ID: XN05641 PERFORMED LDR, CLEARED FAULTS AND PERFORMED PARKED
REGENERATION. TEST DROVE UNIT, ABS FAULTS ACTIVE, NO FURTHER DIAG
PERFORMED

H** R&R CYLINDER HEAD

99-000-0001 R&R CYLINDER HEAD

18066CPHDT

12 993167 SPACER SLEEVE

12 21344787 FLANGE SCREW

6 983472 CABLE TIE

12 996457 FLANGE SCREW

1 21613426 THERMOSTAT

4 990810 FLANGE SCREW

12 21344803 HEX. SOCKET SCREW

1 471708 RUBBER MOULDING

1 1675066 SEALING RING

4 21528673 SHOULDER SCREW

1 967343 O-RING

2 RDS20504408 EGR CLAMP

1 21510072 CYLINDER HEAD GASKET

3 947281 GASKET

3 18665 GASKET

1 11996 GASKET

6 20855371 GASKET

1 20781146 GASKET

2 3979639 PLANE GASKET

1 21185132 SEAL

2 20841816 GASKET

1 20805850 SEAL

1 20850815 GASKET

1 21298915 SEALING STRIP

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PARTS AMOUNT

GAS, OIL, LUBE

SUBLET AMOUNT

MISC. CHARGES

TOTAL CHARGES

LESS AMOUNT

SALES TAX

PLEASE PAY THIS AMOUNT

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PAGE 5

SERVICE ADVISOR: 18242 PAUL WILLIAMS

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14:32 10MAR21 07:33 25MAR21

LINE OPCODE TECH TYPE HOURS

1 85137676 INSTALLATION KIT
 1 85020273 CYLINDER HEAD, EXCH
 CORE CHARGE C
 1 21613426 THERMOSTAT
 1 20429371 INSULATOR
 1 21314359 PRESSURE CAP
 -1 85020273 CORE RETURN
 RESTOCKING CHARGE
 1 22879257 CAMSHAFT BEARING KIT
 6 22879256 CAMSHAFT BEARING KIT
 16 8192804 FLANGE SCREW
 2 21185132 SEAL
 1 21599158 OIL RETURN PIPE
 2 1547253 SEALING RING
 1 977935 GASKET
 1 944126 O-RING
 2 6680 STARTING FLUID
 4 20852765 SEALING RING
 3 20592783 V-CLAMP
 1 20592787 HOSE CLAMP
 1 1675066 SEALING RING
 6 8192804 FLANGE SCREW
 1 20526428 SEALING RING
 2 1677370 SEALING RING
 1 20566175 FITTING
 1 91200 1/4" BRASS PUSHLOCK UNION
 1 1113569 PIPE
 4 8131393 RETAINER
 6 983472 CABLE TIE
 1 471708 RUBBER MOULDING
 1 21298915 SEALING STRIP
 1 1547252 SEALING RING
 2 1547254 SEALING RING
 1 977935 GASKET

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PAGE 6

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LINE OPCODE TECH TYPE HOURS

2 984736 FLANGE SCREW

2 RDS20725387 HOOD SHOCK

TECH ID: XN04486 REMOVED OVERHEAD ASSEMBLY AND CAM SHAFT FROM CYLINDER HEAD. REMOVED TURBO AND DISCONNECTED EGR VALVE FROM EXHAUST MANIFOLD. DISCONNECTED MICS COMPONENTS FROM CYLINDER HEAD. REMOVED ALL HEAD BOLTS THEN REMOVED CYLINDER HEAD FROM UNIT. REMOVED THERMOSTAT HOUSING, INTAKE AND EXHAUST MANIFOLDS FROM CYLINDER HEAD AND CLEANED ALL SEALING SURFACES. INSTALLED INTAKE AND EXHAUST MANIFOLDS ON TO HEAD AND TORQUED TO SPEC. INSTALLED CYLINDER HEAD WITH NEW HEAD GASKET AND TORQUED TO SPEC. INSTALLED EGR VALVE AND TURBO WITH NEW SEALS AND MOUNTING HARDWARE. TORQUED TO SPEC. INSTALLED CAMSHAFT WITH NEW BEARINGS AND MOUNTING HARDWARE. TORQUED TO SPEC. INSTALLED NEW BOLTS FOR IDLER GEAR AND THEN SET THE ENGINE TIMING. INSTALLED CAM GEAR WITH NEW BOLTS AND TORQUED TO SPEC. INSTALLED REAR TIMING COVER AND MICS COMPONENTS. INSTALLED UNIT INJECTORS AND TORQUED TO SPEC. INSTALLED OVERHEAD ASSEMBLY AND TORQUED TO SPEC. ADJUSTED OVERHEAD TO SPEC AND TORQUED ALL LOCK NUTS TO SPEC. INSTALLED ENGINE BRAKE SPRINGS WITH NEW MOUNTING HARDWARE AND TORQUED TO SPEC. INSTALLED VALVE COVER WITH NEW GASKET.

*****VOLVO OF CHEYENNE*****

I** R&R COOLANT FILTER BASE
99-000-0001 R&R COOLANT FILTER BASE
18066CPHDT
18193CPHDT

- 1 22195462 COOLANT PUMP
- 1 20430678 RUBBER MOULDING
- 1 975697 O-RING
- 1 85101 IMP BLK SPRAY PAINT
- 1 85116992 MOUNTING KIT
- 1 9158 ANEROBIC SEALER
- 1 21021925 CONNECTION PIPE
- 12 PSNAFC13100F NITRITE FREE COOLANT

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LINE OPCODE TECH TYPE HOURS													
1 CUD9600 ERF													
1 1547252 SEALING RING													

TECH ID: XN04486 REMOVED MICS COMPONENTS TO ACCESS THE WATER PUMP HOUSING. REMOVED HOUSING FROM UNIT AND CLEANED ALL SEALING SURFACES. INSTALLED NEW HOUSING WITH NEW SEALS AND TORQUED TO SPEC.

TECH ID: XN05641 INSTALLED WATER PUMP AND TORQUED TO 35 FT/LBS, INSTALLED DAMPENER AND CRANKSHAFT PULLEY, TORQUED TO 26 FT/LB THEN 66 FT/LBS. INSTALLED TENSIONER, TORQUED TO 35 FT/LBS, INSTALLED FAN HUB, FAN, AND FAN STATOR, ALL COOLANT PIPING, EGR COOLER OUTLET ELBOW WITH NEW CLAMPS SEALS AND BOOT, REINSTALLED EGR VENTURI WITH NEW CLAMPS AND SEALS, INSTALLED NEW EGR CROSS OVER TUBE WITH NEW CLAMPS AND SEALS AND BOOT, REINSTALLED CHARGE AIR PIPE WITH NEW CLAMPS AND SEALS, REINSTALLED AIR BOX AND FRESH AIR PIPING. INSTALLED SURGE TANK AND CONNECTED COOLANT LEVEL SENSOR, INSTALLED NEW DEAIRATION LINE TO RADIATOR AND NEW SURGE TANK VENT CAP. EXTRACTED BROKEN DEAIRATION LINE FROM RADIATOR AND BROKEN VENT CAP NIPPLE FROM VENT LINE. CONNECTED EGR DELTA P SENSOR AND FAN CONN. INSTALLED NEW COOLANT FILTER FILLED SYSTEM WITH WATER AND COOLANT FLUSH. STARTED UNIT, ACTIVE COUNTS OF COOLANT LEVEL LOW, CHECKED CIRCUIT RESPONSE. OK. INSTALLED TEST COOLANT LEVEL SENSOR, FAULT REMAINS, RECOMMEND REPLACE COOLANT SURGE TANK.

J** R&R SURGE TANK
99-000-0001 R&R SURGE TANK
18193CPHDT
1 23059017 EXPANSION TANK

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EST: 0.00		24MAR21 08:39		SA: 18242						
CONTACT:										

24MAR21 08:27 SA: 18242

12MAR21 13:33 SA: 18242

WESTFALL

12MAR21 13:33 SA: 18242

O'DELL

10MAR21 16:04 SA: 18242

VOLVO OF CHEYENNE

10MAR21 14:32 SA: 18242

CUSTOMER PAY SHOP CHARGE FOR REPAIR ORDER

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C/A SCR							



VOLVO OF CHEYENNE

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