

REPAIR ORDER INVOICE

Customer Number:		Phone:	Invoice Number: R00213700156242	
Tax Status	Terms	P.O.#	Service Date	Invoice Date
EXP	CHARGE		4/27/2019	5/17/2019



Serial Number	Unit Number	Make / Model	Year	License Number	Mileage
1XKWDB9X16R143882	60	KENWORTHW900	2006		1094056

OPERATION 1

COMPLAINT: CA FOR ENGINE USING 2 GAL OF OIL & 1 GAL OF COOLANT A WEEK / WAS OVERHAULD: 358,899 MILES RO 120751

VMRS CODE: 01-045-019-000-14-44

CORRECTION: INSTALL-OVERHAUL KIT - ENGINE-OVERHAUL KIT - ENGINE-WORN REVIEWED THE COMPLAINT AND THEN BROUGHT UNIT INTO THE SHOP. HOOKED UP TO THE UNIT WITH CAT ET AND CREATED A WARRANTY REPORT. BEGAN CHECKING OVER THE UNIT FOR COOLANT LEAKS TO FIND THE RADIATOR WAS LEAKING AT THE CORE, THE UPPER TANK SEAL, AND THE LINES AT THE TRANSMISSION COOLER. DRAINED THE REMAINING COOLANT AND THEN RECOVERED THE PREON FROM THE A/C SYSTEM. REMOVED THE CAC PIPES, THE AIR INTAKE, THE UPPER RADIATOR HOSE, THE A/C LINES, THE OEM HARNESS, THE ENGINE HARNESS, THE ACCESS ITEMS ON THE DRIVER'S SIDE OF THE HEAD, THE A/C COMPRESSOR, THE ALTERNATOR, THE ACCESSORY MOUNTING BRACKET, AND FOUND LOTS OF OIL/DIRT BUILDUP UNDER THE BRACKET ON TOP OF THE WATER PUMP AND AGAINST THE BLOCK. IN ADDITION FOUND THE SAME ON DRIVER'S SIDE AND FOUND THE GEAR HOUSING WAS LEAKING TO THE BLOCK. REMOVED THE THERMOSTAT HOUSING, THE UPPER TURBO, THE LOWER TURBO, THE PRE COOLER, THE BRACKETS, AND FOUND THE EXHAUST PIPE AFTER THE LOW PRESSURE TURBO WAS CORRODED AND COMING APART BUT, FOUND NO ISSUES WITH THE TURBO. ALTHOUGH, UPON INSPECTION THE EXHAUST MANIFOLD WAS FOUND TO BE LEAKING. REMOVED THE ITEMS ON THE BACK OF THE HEAD, THE CROSSOVER COOLANT LINE, THE FUEL LINE, THE BOLTS ON TOP OF THE GEAR HOUSING, THE VALVE COVERS, THE IVA HOUSINGS, THE ROCKERS, THE STUDS, THE BRIDGES, THE WIRING, THE ROCKER BOX, THE INJECTORS, AND FOUND THREE OF THEM HAD THE BOTTOM COMBUSTION SEAL LEAKING. INSPECTED THE INJECTORS TO FIND ALL OF THE TIPS WERE SCORED AND MOST OF THE CLIPS WERE LEAKING. CHECKED THE CAMSHAFT ON THE INJECTOR LOBES TO FIND IT WAS SCORED AND FOUND THE ROCKERS FOR THE INJECTORS WERE AS WELL. AFTER FINDING THIS, REMOVED THE PEANUT COVER, THE CAM GEAR, THE SPACER, THE IDLER GEAR, THE

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THE DOWELS AND THEN LIFTED THE ENGINE. CLEANED OFF THE FRONT OF THE ENGINE BLOCK AND THEN INSTALLED THE DOWELS BACK INTO THE BLOCK. INSTALLED THE BACK PLATE, THE BOLTS TO SPEC, THE LOWER IDLER STUB, THE UPPER CAM IDLER, THE GEAR HOUSING, THE GEAR HOUSING BOLTS, AND THEN INSTALLED THE NEW ENGINE MOUNT BUSHINGS. INSTALLED THE FRONT MOUNT AND SET THE ENGINE DOWN. INSTALLED THE MOUNTING HARDWARE, THE FRONT MAIN SEAL, AND THEN PAINTED THE LOWER SECTION OF THE ENGINE ONCE CLEAN. REMOVED THE NUMBER 2-6 MAIN CAP AND THEN ROLLED OUT THE BEARINGS. CLEANED UP THE CRANK, THE CAPS AND THEN ROLLED IN THE UPPER BEARINGS. INSTALLED THE NEW BEARINGS USING THE CORRECT TORQUE SPEC AND REPEATED THE SAME FOR NUMBER 1 AND 7. CLEANED THE CYLINDERS AND THEN READIED THE PISTON ASSEMBLIES TO BE INSTALLED. INSTALLED THE PISTONS, THE RODS, AND THEN CLEANED UP THE BOTTOM END. INSTALLED THE PISTON COOLERS AND THEN REMOVED THE GEAR FROM THE OLD OIL PUMP AND INSTALLED IT ON TO THE NEW ONE. INSTALLED THE NEW OIL PUMP, THE STIFFENER PLATE, THE SUPPLY TUBE, AND THEN DISASSEMBLED THE FILTER HEAD. CLEANED UP ALL OF THE EXHAUST SIDE COMPONENTS AND THEN INSTALLED THE NEW BYPASS VALVES INTO THE FILTER HEAD. INSTALLED THE NEW OIL COOLER ONTO THE HEAD, MOUNTED THE HEAD ONTO THE ENGINE, INSTALLED THE NEW WATER PUMP, THE BACKING PLATE, THE FRONT COOLER ELBOW, THE REAR COOLER HOUSING, AND THEN PAINTED THE COMPONENTS. INSPECTED THE COOLANT LINES FOR THE EXHAUST SIDE OF THE ENGINE AND FOUND THEY ALL SHOWED SIGNS OF WEAR AND DAMAGE. INSTALLED ALL NEW LINES ON THIS SIDE OF THE ENGINE; INCLUDING THE LINES FOR THE PRE-COOLER. INSTALLED THE ACCESSORY DRIVE, THE POWER STEERING PUMP, THE FUEL PUMP, AND THEN SWAPPED THE FITTINGS. CLEANED UP THE FILTER HEAD, THE RESONATOR BOX, AND THEN INSTALLED THESE ITEMS. INSTALLED THE FUEL LINES, THE CLEANED UP AIR COMPRESSOR, THE AIR COMPRESSOR LINES, THE CAM SENSORS, THE CRANK SENSORS, AND THEN MADE THE NEW READY TO HAVE THE COMPONENTS SWAPPED TO IT. INSTALLED THE VALVES AND VERIFIED THEY WERE IN PLACE. SWAPPED THE PARTS OVER TO THE NEW HEAD AND THEN INSTALLED THE NEW CAM. CLEANED THE DECK AND THEN SET THE HEAD INTO PLACE. INSTALLED THE HEAD BOLTS USING THE CORRECT TORQUE SPEC AND THEN CLEANED UP THE ROCKER BOX. INSTALLED THE ROCKER BOX, THE INJECTORS MAKING SURE TO RECORD THE CODES, THE BRIDGES, AND THEN PINED AND TIMED THE ENGINE. TORQUED THE GEARS AFTER SETTING THE LASH AND THEN CLEANED UP THE GEAR COVER. INSTALLED THE GEAR COVER, THE ITEMS ON THE DRIVER'S SIDE OF THE HEAD, THE COOLANT CROSSOVERS, THE FUEL CROSSOVERS, AND THEN CLEANED UP THE THERMOSTAT HOUSING. INSTALLED THE NEW THERMOSTATS, THE NEW ENGINE HARNESS, THE FAN HUB, THE NEW FUEL FILTER, THE CLEAN ACCESSORY BRACKET, THE CENTER FAN SHROUD MOUNT, THE BALANCER, THE ALTERNATOR, THE A/C COMPRESSOR, THE BELTS, THE PRE-COOLER BRACKET, THE LP TURBO BRACKET, THE PRE-COOLER, THE OIL SUPPLY LINES, THE DRAIN TUBES, THE FILL HOSE, THE OIL PAN, THE STUDS FOR THE TRANS LINE STANDOFFS, THE EXHAUST PIPE FOR THE LOW PRESSURE TURBO, THE EXHAUST ADAPTER, THE FLEX PIPE, THE CLAMPS, THE LOW PRESSURE TURBO, THE HIGH

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PRESSURE TURBO, AND THEN MADE THE CONNECTIONS USING NEW O-RINGS AND GASKETS WHERE NEEDED. REPLACED THE AIR FILTERS AND FILLED THE UNIT WITH OIL AND REPLACED THE OIL FILTER. REPLACED THE ENDS ON THE RADIATOR SUPPORTS AND THEN CLEANED UP THE ROCKERS. ASSEMBLED THE ROCKER SHAFTS AND THEN INSTALLED THE USING NEW STUDS AND THE CORRECT TORQUE SPEC. INSTALLED THE VVA MOUNTING STUDS, THE HOUSINGS, AND THEN RAN THE OVERHEAD. INSTALLED THE CLEAN VALVE COVERS, THE OEM HARNESS CONNECTIONS, THE AIR INTAKE Y, THE FAN SHROUD MOUNTS, THE SHROUD, AND THEN ADJUSTED THE FAN BLADE. INSTALLED THE NEW AIR COMPRESSOR INTAKE HOSE AND THEN GOT THE RADIATOR READY TO ASSEMBLE. ASSEMBLED THE CAC, THE CONDENSER, AND THEN LOWERED RADIATOR INTO PLACE USING NEW LOWER BUSHINGS. CONNECTED THE ITEMS TO THE RADIATOR, INSTALLED THE CAC PIPES, AND THEN CONNECTED THE A/C LINES. TRIMMED AND CONNECTED THE TRANSMISSION COOLER LINES NEXT. CONNECTED TO THE UNIT WITH CAT ET AND PROGRAMMED THE INJECTOR CODES, CLEANED THE EVENTS, AND THEN SAVED A WARRANTY REPORT. FILLED THE UNIT WITH COOLANT AND THEN RAN THE UNIT TO FIND THE OIL PRESSURE SENSOR WAS LEAKING. REPLACED THE SENSOR AND FOUND NO FURTHER LEAKS. CHARGED THE UNIT WITH FREON AND TOPPED OFF THE FLUIDS. STEAMED OFF THE UNIT AND TOOK THE UNIT FOR A ROAD TEST TO FIND NO FURTHER ISSUES.

Labor Total -- 5,000.00

6I4421	PLATE SPACER	1
RF1135298	BRAKE CLEANNON-CHLRNTD	4
16628IMP	HEX BOLT 5/16-18X13/4	2
40152IMP	HEX NUT 5/16-18	2
76012IMP	USS FLAT GR8 5/16	2
RX20R7411	KIT-ENG OVER	1
CX20R7411	KIT ENG OVER	1
CR20R7411	KIT ENG OVER	1
RX10R3323	CAMSHAFT	1
CX10R3323	CORE CAMSHAFT	1
RX20R3319	ARM A UI ROC	6
CX20R3319	ARM AS ROCKE	6
CR20R3319	ARM AS ROCKE	3
CR20R3319	ARM AS ROCKE	3
RX10R2112	CORE AS OIL	1
CX10R2112	CORE CHARGE	1
CR10R2112	CORE CREDIT	1
1678126	DAMPER AS	1
3848611	PUMP GP-F XF	1
2639001	HARNESS AS	1
2201206	HOSE AS	1
3483681	KIT-GASKET(F	1
2853200	KIT-GASKET-R	1
RX10R1888	TURBO GP	1
CX10R1888	CORE CHARGE	1
CR10R1888	CORE CREDIT	1
RX10R2407	TURBO GP BAS	1

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CX10R2407	CORE CHARGE	1
CR10R2407	TURBO CORE.	1
6I4361	INSERT SEAT	6
08880MMM	BRAKE CLEAN	12
6I4361	INSERT SEAT	1
40154IMP	HEX NUT 3/8-16	6
77613IMP	WASHER FLAT 3/8-24	6
RP20-1643	EQUIPMENT YELLOW	1
0117B	B12 CARE CLEANER	2
105FBC	LUBRIPLATE (03494)	1
2097309	PLUG	3
1090077	ORING OIL COOL	2
1135304	SEAL	2
1264935	SEAL	1
3929208	PLUNGER-RELI	2
4N8150	SPRING	2
3162573	CAP OIL. C11 & C13	1
1149223	SPACER	1
2N2766	NUT LOCK	12
2676532	TOWELS SINGLE PACKAGE'	1
RP20-1643	EQUIPMENT YELLOW	1
16650IMP	HEX BOLT 3/8-16X11/2	1
CT05317	TIE WRAP BLACK 15.5	20
16649IMP	HX CP PL USS 3/8X1-1	4
16653IMP	3/8X21/4 BOW-T PL	2
550045148	ROTT4TRIPRGL15W40CJ4_1	10
AF996MFLG	FILTER LL2608 BAL	2
CR10R3323	CAMSHAFT CORE	1
08880MMM	BRAKE CLEAN	1
CT05317	TIE WRAP BLACK 15.5	24
CT05512	TIE-CABLE 15.25" LARGE	10
16654IMP	HEX BOLT 3/8-16X21/2	4
42310IMP	HEX STOP NUT-UNC	4
77613IMP	WASHER FLAT 3/8-24	8
77618IMP	WASHER FLAT 3/4 IN.	4
HWC07055	FASTENER-LINING BLACK	49
K134-356	GASKET LOWER RAD	1
2568753	FILTER PS1000	1
RF5100	COOLANT GALLON	14
RF41800651	A/C DRIER	1
RF59790943	ORING KIT	1
CTD6511	TIE-CABLE DUAL CLAMP B	3
550045148	ROTT4TRIPRGL15W40CJ4_1	2
2746719	SENSOR GP-PR	1
3J7354	SEAL O RING	1
3P1156	SEAL-O-RING	1

Parts Total
Total Operation 1 -- 28,495.94

OPERATION 2

COMPLAINT: CA FOR COOLANT LEAK NEAR BOTTOM CENTER OF RADIATOR
VMRS CODE: 01-042-002-143-26-18
CORRECTION: SEAL OR REAFFIX-FITTING - COOLING SYSTEM, WATER LINE,

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OPERATION 2

HOSE, TUBE, PLUMBING-RADIATOR-LEAKING
 CHECKED FOR THE COMPLAINT AND FOUND THAT THE FITTING IN THE
 DOWN PIPE FROM THE BACK OF THE WATER PUMP WAS LEAKING.
 DRAINED THE COOLANT AND ATTEMPTED TO REMOVE THE FITTING TO
 FIND IT WOULD NOT COME OUT PAST THE OIL FILTER HOUSING.
 REMOVED THE OIL FILTER, THE OIL FILTER HOUSING, AND THEN
 REMOVED THE FITTING. REPLACED THE O-RING AND INSTALLED THE
 FITTING. FILLED THE UNIT WITH COOLANT AND PRESSURIZED THE
 SYSTEM TO FIND NO FURTHER LEAKS. CLEANED UP THE SEALING
 SURFACES, INSTALLED NEW O-RINGS, AND THEN REINSTALLED THE
 ACCESS ITEMS. RAN THE UNIT AND FOUND NO FURTHER LEAKS.

Labor Total -- 676.50

0617540	SEAL O RING	2
1135304	SEAL	2
8C5230	SEAL O RING	2
6V5063	SEAL O RING	1
RF5100	COOLANT GALLON	2
08880MMM	BRAKE CLEAN	2
44KW12B	CAC F31-1035	1
RF57370EP357	BUSHING RADIATOR	4
07-03286RUB	MOUNT-RADIATOR OE RUBB	4
K264-84	GROMMET-RADIATOR TIE R	4
K124-305	END-ROD	2
RF654061404	BUSHING-FRONT ENGINE	2
RF970A15101	BUSHING-ENG FRNT	2
F22-1028	RING-FAN SHROUD	1
F42-1065	SEAL-FAN SHROUD	1
5H1504	WASHER	2
1221472	BOLT	8
4231984	HOSE INTAKE	12
9L8925	BOLT	7
EC50PLS	CLAMP-EXHAUST	3
EF5012S	FLEX 5"X12STNLESS PREC	1
M66-1319	PIPE-EXHAUST MBEND 5"	1
B9226-0275TRP	CLAMP-HOSE CONSTANT TO	1
4070-0001FX	HOSE-HUMP 4X6	1
2299944	ELBOW - AIR	1
2256435	CLAMP-V-BAND	1

Parts Total --
 Total Operation 2 -- 3,681.31

OPERATION 3

COMPLAINT: REPAIR FOR THE DRIVER SIDE TURN SIGNAL INOP
 VMRS CODE: 01-003-001-045-03-12
 CORRECTION: REPLACE WITH NEW-INDICATOR - TURN SIGNAL-GAUGES & WARNING
 DEVICES-BROKEN
 CHECKED FOR THE COMPLAINT AND VERIFIED THAT THE LEFT FRONT
 SIGNAL WAS NOT WORKING. INSPECTED THE WIRING TO FIND THE TWO
 WIRE WERE BROKEN AT THE LIGHT. REMOVED THE LIGHT AND FOUND
 BOTH STUDS HAD COME OUT OF THE LIGHT. REMOVED THE NUTS OFF
 OF THE STUDS AND INSTALLED A NEW LIGHT. SPLICED THE WIRES
 BACK TOGETHER AND SECURED THE WIRING. CHECKED THE OPERATION

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OPERATION 3

OF THE LIGHTS TO FIND NO FURTHER ISSUES.

71893IMP
38756

CONNECTOR HT/SHRNK BLU
LED TURN SQUARE

Labor Total --
3
1
Parts Total -- 284.67
Total Operation 3 --

OPERATION 4

COMPLAINT: REPLACE TRANS COOLER AND LINES.
VMRS CODE: 01-042-002-012-03-00
CORRECTION: REPLACE WITH NEW-OIL COOLER ASSEMBLY - TRANSMISSION-
RADIATOR-NO FAILURE
REMOVED AND REPLACED THE TRANSMISSION COOLER, THE COOLER
OIL LINES, AND THE COOLER COOLANT LINES.

Labor Total -- 393.60

K3955
5526-062X25FX
5526-075X25FX
9208TRP
9212TRP
2470055
2470266
P14362-058PK
2843502
5526-075X25FX
HE3040
725-10-10SDYC

KIT-HEAT EXCHANGER
SILICONE HOSE 5/8"
HOSE SILCON 3/4"
CLAMP #8 5/8-13/16
CLAMP #12 3/4 -1 1/8"
HOSE .
HOSE .
ODELL CLAMP 2" ID
CLAMP-BAND.
HOSE SILCON 3/4"
HOSE #10 1/2
FITTING-RE725-10-10S

1
20
15
8
4
1
1
3
2
14
6
4
Parts Total --
Total Operation 4 -- 1,659.48

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* OPEN 24/7 FOR ALL MAKES SERVICE AND PARTS *

REPAIR ORDER SUMMARY		AMOUNT
Labor Total		
Parts Total		
Shop Supplies		
Sales Tax		

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TOTAL DUE

34,881.73