CUSTOMER #:
UNIT# 5

462190

INVOICE

PAGE 1
IXIUS.NET
SERVICE ADVISOR:

COLOR	YEAR	MAKE/MODEL	VIN	LICENSE	MILEAGE IN / OUT	TAG
	03	FREIGHTLINER CL120	1FUJA6CV93LL96663		399876/399892	T5504

DEL. DATE	PROD. DATE	WARR. EXP.	PROMISED	PO NO.	RATE	PAYMENT	INV. DATE
25APR03 DD			17:00 27APR15		105.00	CASH	28JUL15

R.O. OPENED	READY	OPTIONS:
16:28 27APR15	14:27 28JUL15	1) ENGINE: MBE 460. SN: 46090700746634

LINE OPCODE TECH TYPE HOURS LIST NET TOTAL

A COURTESY ENTRANCE INSPECTION
CI COURTESY ENTRANCE INSPECTION
1342 CPT
PARTS: 0.00 LABOR: 0.00 OTHER: 0.00 TOTAL LINE A:
1 UPON ENTRANCE INSPECTION THE FAULTS ARE NO DOT STICKER, ENGINE HAS OIL LEAKS (REPAIRED WITH ENG SWING). RIGHT SIDE MIRROR BROKEN, HAS LIGHTING INOP.

****

B EXPRESS ASSESSMENT: CHECK & ADVISE: I have a 2003 Columbia Vin# LL96663 with a MBE460 engine. The ECU has shut the engine down due to low oil pressure and now is preventing the starter to turn the engine over. I know it is throwing codes and needs a diagnostic run on it. I would like to schedule this to be done and make the repairs needed.
EA EXPRESS ASSESSMENT
1388 CPT
1357 CPT
1376 CPT
1391 CPT
1932 CPT
1342 CPT
1385 CPT
1300 CPT

1 EXO/3AH00015SP DRAIN ASSY
1 DDE/EA0080962899 TURBOCHARGER
CORE CHARGE C
6 DDE/A4570980180 SEAL
2 DDE/A4600980580 GASKET
4 DDE/A0009902852 NUT
1 DN/P550467 ELEMAX CART
1 ZFA/0634-313-640 O - RING
1 DN/X007805 CLAMP ASM
1 23-12645-720 SCREW-MACH.M8X20MM.SST

X_____

DESCRIPTION	TOTALS
LABOR AMOUNT	
PARTS AMOUNT	
EPA FEE	
SUBLET AMOUNT	
SHOP FEES	
TOTAL CHARGES	
LESS INSURANCE	
SALES TAX	
PLEASE PAY THIS AMOUNT	

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1 ABP/N83-319745 RECEIVER-DRIER.3INX10 1/4IN·
6 MALE O R
3 23-13201-000 SEAL-MINI STAT-O-SEAL PLUS 6
1 23-13202-000 SEAL-MINI STAT-O-SEAL PLUS 8
1 PIC/NF2088 COOLANT FILTER
1 DN/P527682 ELEMENT. AIR FILTER. PRIMARY
1 DDE/A0001802909 OIL FILTER
1 DDE/A0259974348 SEAL RING
6 DDE/A5411420380 GASKET
2 DDE/A4579970945 O-RING
1 DDE/A6069971645 SEAL RING
1 DDE/A4762010280 W/PMP GASKET
2 DDE/A0249972848 5EAL RING
4 DDE/N007603016102 RING.GENERL
1 BOLT BOLT
2 WASHER WASHER
1 NUT NUT
1 DDE/R23534857 3/4 MBE4000 ENGINE
CORE CHARGE C
1 DDE/A4570150080 GASKET
1 DDE/A4572010380 GASKET
13 DDE/N007603008103 SEAL RING
13 DDE/N000000001069 SEAL RING (20MM O.D. X
14MM I.D.)
8 DDE/N007603016102 RING.GENERL
1 DDE/A0169970646 SEALING RING
1 DDE/A0149974647 SEAL RING
2 CPS/N007603008103 SEAL
1 FRT 1257908
6 DDE/A0019904605 STUD
2 4298242 STUD
6 DDE/A0009903150 TURBO NUT
1 PEX/59235 HI TEMP THREAD SEALA
1 DDE/A4762010280 W/PMP GASKET

X

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LINE	OPCODE	TECH	TYPE	HOURS		LIST	NET	TOTAL
	4 DDE/N000000001069 SEAL RING (20MM O.D. X 14MM I.D.)							
	2 DDE/A4579970945 O-RING							
	1 DDE/A6069971645 SEAL RING							
	1 01-29730-115 BELT-6 RIB.ORION-POLY. 1115MM							
	1 01-27198-001 BELT-9 RIB.ORION-POLY.1548MM.SERPENTINE							
	1 01-27086-003 BELT-8 RIB.ORION-POLY.1705MM.SERPENTINE							
	1 PEX/14600 COLD WELD BONDING CO							
	20 BOLT BOLT							
	20 WASHER WASHER							
	-1 DDE/R23534857 CORE RETURN							
	2 FUL/84001 FITTING-1/8IN TUBE TO 1/16IN MALI PIPE							
	1 BCD/27651-3 ISOLATOR - ENG MNT							
	1 BCD/28945-1 ISOLATOR-ENG SUPPORT.FR.LOWER							
	6 PH/1220-4A-GRN250 NYLON 12 TUBING							
	1 PH/169PMT-4-2 ELBOW							
	1 PH/68PMT4-2 BRASS FITTING							
	4 IDL/5748 CLAMP							
	6 BRZ/9212H CLAMP-HOSE.11/16-1 1/4IN. 1/2IN BAND							
	1 FUL/4305294 GASKET							
	8 23-12891-175 SCREW-SOCKETHEAD 12PT.1/2-20.: 3/4IN							
	1 23-09114-004 WASHER-FLAT.STEEL.HARDENED.3/· IN							
	1 23-13203-000 SEAL-MINI STAT-O-SEAL PLUS 10							
	1 NUT NUT							
	1 PIC/7001 GREASE. RED							
	1 23-13201-000 SEAL-MINI STAT-O-SEAL PLUS 6							
	8 GT/4230SB3/8 HOSE-HTR..38 INCH ID.BULK							
	2 BRZ/9206H CLAMP-HOSE.7/16-25/32IN. 1/2 IN							

X_____

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BAND
9 PAF/AFC11100F PRESTONE EXT LIFE 50/50 GAL
20 PHM/8-43147 TIE STRAP-14.5IN.BLACK.NYLON.50
.100/BAG
5 TYC/DCT110HIR TIE STRAP
10 SLO/500004741 CJ4 BULK ROTELLA OIL
100 PHM/8-43147 TIE
STRAP-14.5IN.BLACK.NYLON.50 .100/BAG
-1 DDE/EA0080962899 CORE RETURN

PARTS: 20897.10 LABOR: 5250.00 OTHER: 0.00 TOTAL LINE B:

1 WITH ANOTHER TECHS ASSISTANCE, GOT UNIT PUSHED IN SHOP. HOOKED UP LAPTOP AND CHECKED THE CODES AND FOUND CODES FOR HIGH BATTERY VOLTAGE 1 COUNT. LOW OIL PRESSURE 166 COUNTS, OIL TEMP CIRCUIT SHORTED. PRINTED OFF T/S FOR OIL PRESSURE LOW. CHECKED OIL LEVEL AND FOUND THE OIL WAS JUST CHANGED. NEW AND CLEAN OIL. POSSIBLE THAT THE STAND PIPE FOR OIL FILTER IS BROKE, AND CAN NOT MAINTAIN CORRECT OIL PRESSURE. REMOVED THE TIMING COVER ON FLYWHEEL HOUSING AND INSTALLED THE ENGINE ROTATING TOOL. TRIED TO ROTATE ENGINE AND IT WOULD NOT TURN EITHER WAY. MADE EST FOR OVERHAUL AND POSSIBLE CRANK, PLUS POSSIBLE OIL FILTER HOUSING AFTER FURTHER INSPECTION. REMOVED THE TOOLS FROM ENGINE AND GOT HELP WITH PULLING OUT SHOP AND PUTTING ON WEST SIDE. GOT APPROVAL TO REPAIR, MOVED TRUCK IN SHOP & STARTED REMOVING ACCESSORY'S MOUNTED TO ENGINE TO INSPECT ENGINE, CONTINUED WITH INSPECTION. HAD TO REMOVE BOTH FRONT STEER AXLE SPRINGS FROM FRAME TO GET OIL PAN DOWN. ONCE PAN WAS REMOVED FOUND SUCTION TUBE BROKEN AT OIL PUMP. INSPECTED CRANK SHAFT REMOVED #3 MAIN BEARING CAP (HAD TO USE A HEEL BAR TO PRY IT DOWN) & FOUND BEARINGS HAS STUCK TO CRANK -NEEDS ENGINE, GOT OK TO REPAIR, ORDERED ENGINE, OBTAIN ORDERED ENGINE FROM PARTS DEPT. DISCONNECTED BATTERIES. GOT ASSISTANCE FROM OTHER TECHS TO DISCONNECT AND REMOVE HOOD. CONNECT REFRIGERANT HANDLING EQUIPMENT AND RECOVER 1.7LB FROM SYSTEM. DRAIN COOLANT, DISCONNECT AND REMOVE RADIATOR ASSEMBLY. REPLACED BROKEN DRAIN VALVE IN RADIATOR. TAPE UP ALL A/C LINES TO PREVENT DIRT ENTRY. BEGIN MAKING PARTS LIST FOR NEW ENGINE INSTALLATION. DISCUSS NO NEW TURBO WITH SHIPPED ENGINE WITH SERVICE MANAGER- WILL NOT RE-USE TURBO DUE TO

X

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ENGINE NO-OIL FAILURE. ORDER REMAN TURBO. REMOVE RAIN TRAY AND WIPERS. REMOVE BUMPER ASSEMBLY. DISCONNECT WIRING AND PLUMBING FROM ENGINE FOR REMOVAL. PLACE TRANSMISSION JACK UNDER TRANSMISSION, ADJUST AS NEEDED AND UNMOUNT TRANSMISSION FROM ENGINE. SETUP HOIST OVER ENGINE, ARRANGE LIFTING EQUIPMENT, REMOVE ENGINE MOUNT BOLTS, REMOVE ENGINE FROM CHASSIS. REATTACH OIL PAN. SET ENGINE ON STANDS AND BEGIN REMOVING PARTS NEEDED FOR NEW ENGINE. DOUBLE CHECK WITH PARTS DEPARTMENT, FOUND NEW ENGINE AS ORDERED IS INCORRECT - NEW ENGINE IS 2007 EMISSIONS AND CAN NOT BE USED IN 2004 VEHICLE. STARTED PULLING TRANSMISSION. SWAPPED CLUTCH OVER USING NEW BOLTS, GOT NEW ENGINE -VERIFIED IT IS CORRECT. INSTALLED TRANS ONTO NEW ENGINE WITH NEW BOLTS, SWUNG ENGINE IN TO PLACE IN FRAME RAIL. FINISH CONNECTING AIR LINES ON TRANSMISSION INSTALLED THE SHIFT TOWER WITH NEW GASKET HOOKED UP THE TRANSMISSION LINKAGE AND RECONNECTED AIR AND ALL ELECTRICAL LINES TO TRANSMISSION. RECONNECTED COOLER LINES AND MADE SURE TRANSMISSION OIL LEVEL IS FULL. HAD HELP INSTALLING THE ENGINE MOUNTING BOLTS REINSTALLED THE P.T.O. AND SHIMMED GEAR LASH TO MANUFACTURER SPECS, AND REINSTALLED THE DRIVE LINE WITH NEW BOLTS. CONNECTED ALL ELECTRICAL AND AIR LINES, PLUS COOLANT LINES THAT WERE REMOVED FROM ENGINE TO TRUCK. FILLED CRANKCASE OIL LEVEL WITH NEW FILTERS AND FILLED COOLANT LEVEL. PRIMED ENGINE AND STARTED ENGINE AND LET RUN TO MAX OPERATING TEMP. REINSTALLED HOOD AND RECONNECTED HEADLIGHT HARNESS AND ALL STRAPS AND SUPPORTS FROM HOOD TO FRAME. TEST DROVE UNIT, AND ALL CHECKS OUT GOOD. PULLED BACK INTO SHOP FOR FINAL INSPECTION. ALL WORK WE DID IS OK. NOTE: NEW/OLD ENGINE SERIAL #'S. NEW S/N 460908R1102349. OLD S/N 46090700746634.

****

Dealer Code : SCFD

By executing below, you hereby agree that any dispute in any way related to the services rendered (except for any dispute regarding your failure to pay for services rendered or the creation, perfection or foreclosure of any lien or security interest) shall be submitted to final and binding arbitration under the commercial arbitration rules of the American Arbitration Association. Nebraska law shall govern the arbitration proceeding and the arbitration trial shall occur in Omaha, Nebraska. OTC MAKES NO REPRESENTATIONOR WARRANTY OF ANY KIND WHATSOEVER, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION REPRESENTATIONS OR WARRANTIES WITH RESPECT TO MERCHANTABILITY, NONINFRINGEMENTOF THIRD PARTY RIGHTS, AND FITNESS OR SUITABILITY FOR ANY PURPOSEOR USE. FURTHER, YOU AGREETHAT OTC SHALL NOT BE LIABLE TO YOU OR ANY PARTY FOR ANY SPECIAL, INCIDENTAL, INDIRECT, PUNITIVE, EXEMPLARY OR CONSEQUENTIAL DAMAGES OF ANY KIND, ARISING OUT OF, RELATING TO OR IN CONNECTION WITH THE SERVICES RENDERED, EVEN IF OTC HAS BEEN ADVISED, KNOWS OR SHOULD HAVE KNOWN OF THE POSSIBILITY OF SUCH DAMAGES.

X_____

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LABOR AMOUNT	
PARTS AMOUNT	
EPA FEE	
SUBLET AMOUNT	
SHOP FEES	
TOTAL CHARGES	
LESS INSURANCE	
SALES TAX	
PLEASE PAY THIS AMOUNT	28376.88

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