



12101 HWY 210 E
BRAINERD, MN 56401
P: (218) 454-0243
F:
WWW.FREIGHTLINEROFSTCLOU
D.COM

: R500003179:01

Tag Number: NONE

License Plate Number: YBC3929

BILL TO

WASTE PARTNERS INC - 17841
2928 STATE HWY 371 SW
BOX 677
PINE RIVER MN 56474
P: (218) 821-6887
F: (218) 587-5122

DELIVER TO

WASTE PARTNERS INC - 17841
2928 STATE HWY 371 SW
BOX 677
PINE RIVER MN 56474
P: (218) 821-6887
F: (218) 587-5122



DATE ARRIVED		DATE INVOICE	SALES TYPE	ADVISOR	TERMS	CUSTOMER REFERENCE		
7/14/2021 8:38:02AM		8/19/2021	SRET	JAYW	AR			
YEAR	MAKE	MODEL	VIN	CUSTOMER UNIT #	ENGINE HOURS	IN SERVICE	Component Serial #	ODOMETER
2005	AUTOCAR LLC	XPEDITOR	5VCH36PE25H201246	RE3701	0			180902

Sold Operations

JOB #1 00 General Information

COMPLAINT ESTIMATE LINE
CAUSE
CORRECTION

QTY	ITEM	DESCRIPTION	UNIT PRICE	EXTD PRICE

Parts: Labor: Misc: Sublet:

JOB #2 05-03 Elite Inspection

COMPLAINT PERFORM ELITE INSPECTION
CAUSE
CORRECTION PERFORM ELITE INSPECTION AS PER CHECKLSIT, FOUND: 5713
• DRIVE AXLE INPUT U JOINT HAS CAPS MISSING FROM TOW –
• COOLANT IS FULL OF OIL, WILL REPLACE ON ENGINE REPAIR LINE. COULD NOT TEST.
• RH TOP CENTER BOX MARKER LIGHT IS INOP

QTY	ITEM	DESCRIPTION	UNIT PRICE	EXTD PRICE
	LABOR E I	Elite Inspection		0.00

Parts: \$0.00 Labor: \$0.00 Misc: \$0.00 Sublet: \$0.00 \$0.00



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Sold Operations (Cont.)**JOB #3 01****Engine**COMPLAINT
CAUSE

T/S ADVISE CUSTOMER COMPLAINT UNIT SHUTS DOWN - DRIVER NOTICED OIL IN COOLANT



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Sold Operations (Cont.)**CORRECTION**

MARK AND SHOWS NO VISIBLE SIGNS OF COOLANT CONTAMINATION. COOLANT HAS A LARGE AMOUNT OF OIL IN IT TO THE POINT IT HAS PUSHED THE EXCESS OIL/COOLANT MIX OUT THE OVERFLOW. CONNECT AND READ CODES, HAD INACTIVE CODES:

- 415 - OIL PRESSURE LOW / DATA VALID BUT LOW, MOST SEVERE - 124 OCC
- 131 - ACCELERATOR PEDAL POSITION SENSOR CIRCUIT / VOLTAGE HIGH, 1 OCC

SUSPECT OIL LEAKING INTO COOLANT IS CREATING ENOUGH OF A PATH TO CAUSE LOW OIL PRESSURE. DRAIN COOLANT AND REMOVE THE ALTERNATOR AND THE HOT CAC PIPE. REMOVE THE OIL COOLER AND OIL FILTER HEAD. FAB PRESSURE TESTING PLATES TO PRESSURE TEST THE COOLER. INSTALL THE PLATES AND SUBMERGE THE COOLER IN HOT WATER AND PRESSURIZE TO 60 PSI. CAN SEE VERY SMALL BUBBLES COMING FROM THE COOLER CORE AT A VERY SMALL RATE. COOLER IS LEAKING BUT IT IS NOT ENOUGH TO CAUSE A SUBSTANTIAL LOW OIL PRESSURE PROBLEM. CAP OIL PORTS AND AIRD TRUCK UP TO MOVE OUTSIDE FOR TIME BEING. INSTALL NEW OIL COOLER CORE AND COVER, REINSTALL FILTER AND TOP OFF OIL. INSTALL ALTERNATOR AND BELT, FILLED COOLING SYSTEM WITH DEGREASER AND WATER. RAN ENGINE UP TO TEMP, AND FLUSHED THREE TIMES. NO CHANGE IN THE AMOUNT OF OIL COMING OUT OF THE COOLING SYSTEM. ENGINE IS ALSO THROWING LOW OIL PRESSURE FAULTS AFTER REACHING OPERATING TEMP. OIL PRESSURE READS 27 PSI AT RATED SPEED, MINIMUM IS 35 PSI. VERIFIED READING WITH A MECHANICAL GAUGE AND THE SENSOR AND DASH GAUGE ARE READING ACCURATLY. REMOVE OIL FILTER AND CUTR OPEN TO CHECK FOR PLUGGING/METAL, FOUND SHAVINGS AND A GREASY SUBSTANCE ON FILTER ELEMENT. REPLACED FILTER AND RETEST, AND OIL PRESSURE IS OVER 60 PSI NOW AT RATED SPEED. FILTER WAS PLUGGED. NEED TO DETERMINE OIL CONDITION WITH AN OIL SAMPLE, AND DETERMINE WHERE OIL IS GETTING INTO COOLING SYSTEM. PULL OIL SAMPLE AND IT HAS WATER IN IT, BUT NO SIGNS OF COOLANT. DRAINED OIL AND IT IS VERY THICK. REMOVE OIL PAN AND PRESSURE TEST COOLING SYSTEM, FOUND WATER LEAKING FROM CYLINDER #3 AROUND PISTON. WILL NEED TO REMOVE INJECTOR AND PROBABLY HEAD TO REPAIR. REMOVE VALVE COVER, CAC PIPING AND REMOVE ROCKER HOUSING. REMOVED #3 INJECTOR AND DRIED OUT CYLINDER. TOPPED OFF WATER AND PRESSURIZED TO SEE IF LEAK IS COMING FROM VISIBLE PORTION OF HEAD. COULD NOT SEE LEAK WITH INJECTOR REMOVED. REMOVED THE REMAINING INJECTORS AND REMOVED THE FAN HUB AND THE SHROUD. REMOVE FUEL RAIL AND INTAKE, REMOVE COOLANT RESERVIOR AND REMOVE TURBO AND HEAD BOLTS. LIFT HEAD AND INSPECT, #3 CYLINDER IS WET INSIDE, CAN NOT SEE A FAILURE IN THE GASKET. CLEANED LINER AND NO VISIBLE LEAKS FOUND. CAN SEE MOISTURE IN VALVE SEATS ON #3. REMOVE INTAKE AND EXHAUST MANIFOLDS, REMOVE #3 VALVES AND INSPECT, THE EXHAUST PORTS ARE WET BUT SEE NO CRACKS. NEED TO TEST HEAD AND IF HEAD TESTS OK WILL NEED TO TEST BLOCK/LINER REMOVED ROD AND MAIN BEARINGS TO INSPECT. BEARINGS SHOW DAMAGE FROM COOLANT INTRUSION, CRANK IS OK. WILL REPLACE BEARINGS. ROLL IN NEW MAINS AND REPLACE CAPS. TORQUED CAPS AND CHECKED CRANK END PLAY, HAS .007" OF END PLAY, IN SPEC. REPLACED ALL ROD BEARINGS AND TORQUED ROD CAPS. CLEANED BLOCK DECK AND MEASURED LINER PROTUSION, LINER PROTUSIONS ARE ALL IN SPEC. REINSTALL ALL FITTINGS AND INTAKE ONTO THE HEAD, INSTALL HEAD ON BLOCK AND TORQUE. REPLACED THE COOLANT RESERVIOR AND CONNECTED ALL THE COOLING SYSTEM LINES. FILL WITH WATER AND PRESSURE TEST, STILL PUTTING WATER INTO #3 CYLINDER. REMOVE HEAD, REMOVE #4 PISTON AND REMOVE LINER. INSPECTED LINER AND FOUND CAVITATION EROSION HAD ATE THROUGH THE LINER AND WAS ALLOWING COOLANT INTO THE CYLINDER. WILL PULL REMAINING LINERS FOR INSPECTION. PULLED THE OTHER 5 PISTONS AND LINERS. CLEAN AND INSPECTED ALL PARTS, AND ALL THE OTHER LINERS SHOW SIGNS OF SUBSTANTIAL CAVITATION EROSION BUT ARE NOT QUITE LEAKING AT THIS POINT. STRONGLY RECOMMEND REPLACING ALL SIX CYLINDER KITS. CLEANED CYLINDER BLOCK COUNTER BORES AND INSTALLED NEW LINERS. CLAMPED DOWN AND MEASURE LINER PROTRUSION, ALL ARE IN SPEC. REPLACED ALL PISTONS ON RODS AND INSTALL NEW RINGS. INSTALL PISTON/ROD ASSEMBLIES INTO LINERS



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Sold Operations (Cont.)

QTY	ITEM	DESCRIPTION	UNIT PRICE	EXTD PRICE
1	1161	MACHINE CYLINDER HEAD	276.81	276.81
1	500C/3164067	SEALANT	19.89	19.89
1	500C/3164101	CONNECTOR,ELC REPAIR	50.82	50.82
4	500C/3818823	STUD	13.31	53.24
4	500C/3818824	NUT,REGULAR HEXAGON	3.19	12.76
1	500C/3918174	GASKET,OIL COOLER CORE	17.07	17.07
1	500C/3918327	PIPE,AIR TRANSFER	109.10	109.10
1	500C/3929011	GASKET,LUB OIL CLR COVER	22.61	22.61
1	500C/3939352	GASKET,OIL SUC CONNECTION	3.83	3.83
6	500C/3942748	LEVER,ROCKER	76.69	460.14
6	500C/3942749	LEVER,ROCKER	81.10	486.60
12	500C/3944593	SCREW,HEX FLANGE HEAD CAP	3.85	46.20
12	500C/3945252	SPACER,MOUNTING	5.83	69.96
1	500C/3945917	SET,MAIN BEARING (STD)	213.62	213.62
12	500C/3950661	BEARING,CON ROD (STD)	15.36	184.32
6	500C/4309095	KIT,ENGINE PISTON	307.76	1,846.56
1	500C/5284362	CORE,COOLER	198.33	198.33
1	500C/5284903	THERMOSTAT	69.50	69.50
1	500C/5332563	GASKET,OIL PAN	52.55	52.55
6	500C/5404408	LINER,CYLINDER	156.41	938.46
1	500C/5529515	GASKET,CYLINDER HEAD	168.68	168.68
1	500c/5579029	KIT,UPPER ENGINE GASKET	501.12	501.12
1	500D/ABP N35 40PLA	CLAMP-BAND,ALUMINIZED STL,4IN,	6.62	6.62
1	500D/BRZ 9212H	CLAMP-HOSE,11/16-1 1/4IN, 1/2I	2.19	2.19
1	500D/BRZ CT 175 L SS	CLAMP-CT,HOSE,1-1 3/4,5/8 BAND	5.84	5.84
9	500D/FG CC2746	ANTIFREEZE304-03D	18.77	168.93
2	500D/FG LF9009	PACKAGE, LUBRICATION FILTER	42.57	85.14
1	500D/FG WF2071	WF PKG	12.84	12.84
1	500D/TYC DCT110HIR	TIE STRAP	1.65	1.65
5	500D/WHL 83-6029	TIE WRAP HEAVY DUTY	0.56	2.80
4	500X/12045773	16-18 MALE TERMINAL	1.76	7.04
4	500X/12048074	FEMALE TERMINAL	1.32	5.28
8	500X/15324976	SEAL	0.68	5.44
1	500X/ACP/23520-0019	TURBO EXHAUST CLAMP	84.75	84.75
1	500X/ACP/A2120071-001	PRESSURE CAP	29.81	29.81
1	500X/ACP/A2120073-001	SURGE TANK	151.31	151.31
1	500X/ACP/A2350139-001	EXHAUST PIPE	367.12	367.12
1	500X/ACPA/1674922	FILLER CAP	31.57	31.57
10	500X/AVP/0734	BRAKE CLEAN	2.93	29.30
1	500X/AVP/308400	1/4" PETCOCK	18.58	18.58
2	500X/AVP/52016	11/16-1 1/2 HOSE CLAMP	2.07	4.14
6	500X/AVP/62005	HOSE CLAMP	2.37	14.22
2	500X/AVP/71856	CUTTING WHEEL	3.08	6.16
1	500X/AVP/7447	RED S/BPAD*20	1.69	1.69
4	500X/IMP/12622	FLAT WASHER M10 HARDENED	0.44	1.76
4	500X/IMP/15175	M10X1.5X35	1.12	4.48
1	500X/IMP/90313	PIPE HD PLG 3152X4	1.40	1.40
1	500X/IMP/90314	PIPE HD PLG 3152X6	1.77	1.77



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Sold Operations (Cont.)

QTY	ITEM	DESCRIPTION	UNIT PRICE	EXTD PRICE
1	500X/IMP/90315	PIPE HD PLG 3152X8	1.61	1.61
1	500X/PEX/24200	MEDIUM STRENGTH THRE	4.59	4.59
5	500X/WHL/83-6021	TIE WRAP	0.24	1.20
1	frt	FREIGHT	185.98	185.98
	LABOR TS R	Tractor Shop Repair		6,488.90

Parts: \$6,584.59 Labor: \$6,488.90 Misc: \$185.98 Sublet: \$276.81 \$13,536.28

JOB #4 41 Driveline

COMPLAINT T/S ADVISE REPLACE DRIVESHAFT FROM TOW
 CAUSE
 CORRECTION REMOVED STRAP BOLTS AND STRAPS. LOWERED DRIVESHAFT ONTO FLOOR. REPLACED REAR UJOINT 5797

QTY	ITEM	DESCRIPTION	UNIT PRICE	EXTD PRICE
1	500D/TDA M675X	1710 HALF-ROUND U-JOINT KIT	51.86	51.86
	LABOR TS R	Tractor Shop Repair		84.15

Parts: \$51.86 Labor: \$84.15 Misc: \$0.00 Sublet: \$0.00 \$136.01

JOB #5 00 General Information

COMPLAINT CONTINUE STORY FROM JOB 2
 CAUSE
 CORRECTION CLAMPEED DOWN AND MEASURE LINER PROTRUSION, ALL ARE IN SPEC. REPLACED ALL PISTONS ON RODS AND INSTALL NEW RINGS. INSTALL PISTON/ROD ASSEMBLIES INTO LINERS AND TORQUED THE ROD CAPS. INSTALL HEAD ONTO BLOCK WITH NEW GASKET, TORQUED HEAD BOLTS. CONNECT ALL WATER LINES AND FILED BLOCK WITH WATER AND PRESSURE TEST, COOLING SYSTEM NOW HOLDS PRESSURE. INSTALL INJECOTRS, ROCKERS AND PUSHRODS. INSTALL FUIEL RAIL, LINES AND SEALED FUEL SYSEY. RAN OVERHEAD AND INSTALL LOWER COKER HOSUING. CONNECT INJECOTOR HARNESS AND INSTALL VALVE COVBER. CONNECT AND SECURE THE ENGINE WIRING HARNESS AND REPAIR WIRING AT THE COOLANT RESERRVOIR AND THE ALTERNATOR. INSTALL NEW PISTON COOLERS. 5713 CLEANED OIL PAN SURFACE AREA, INSTALLED AND TORQUE THE OIL PICK UP TUBE. FINISHED PUTTING ENGINE BACK TOGETHER, FILLED OIL, ADDED CLEANER AND WATER TO THE COOLING SYSTEM, STILL NEED TO GET UP TO TEMP AND FLUSHED COOLING SYSTEM THREE TIMES TO REMOVE OIL, FILLED WITH COOLANT AND TEST DROVE GOOD, CHECKED FLUIDS READY TO GO. 5797

QTY	ITEM	DESCRIPTION	UNIT PRICE	EXTD PRICE

Parts: Labor: Misc: Sublet:

Sold Operations Totals **Parts: \$6,636.45 Labor: \$6,573.05 Misc: \$185.98 Sublet: \$276.81 \$13,672.29**



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I AM THE PERSON OR AGENT ACTING ON BEHALF OF THE PERSON WHO IS OBLIGATED TO PAY FOR THE REPAIR OF THE MOTOR VEHICLE SUBJECT TO THE REPAIR AGREEMENT. I UNDERSTAND THAT THE VEHICLE IS SUBJECT TO REPOSSESSION IN ACCORDANCE WITH §9.503, Texas Business and Commerce Code, IF PAYMENT FOR THE REPAIR OF THE MOTOR VEHICLE BY A CHECK, MONEY ORDER, OR A CREDIT CARD TRANSACTION IS STOPPED, DISHONORED BECAUSE OF INSUFFICIENT FUNDS, NO FUNDS OR BECAUSE THE MAKER OR DRAWER OF THE ORDER OF THE CREDIT CARD HOLDER HAS NO ACCOUNT OR THE ACCOUNT UPON WHICH IT IS DRAWN OR THE CREDIT CARD ACCOUNT HAS BEEN CLOSED.

X

SIGNATURE OF PERSON RESPONSIBLE OR AGENT FOR PERSON RESPONSIBLE FOR PAYMENT.

Statement of Disclaimer

The factory warranty constitutes all of the warranties with respect to the sale of this item/items. The Seller hereby expressly disclaims all warranties either express or implied, including any implied warranty of merchantability or fitness for a particular purpose. Seller neither assumes nor authorizes any other person to assume for it any liability in connection with the sale of this item/items.

CUSTOMER SIGNATURE

BILLED

LABOR	\$6,573.05
PARTS	\$6,636.45
MISC	\$185.98
SUBLET	\$276.81
SUBTOTAL	\$13,672.29
SHOP SUPPLIE	\$200.00
MISC SUPPLIES	\$0.00
TAX	\$538.32
TOTAL	\$14,410.61

Please Remit Payment to:
Northland Freightliner
PO BOX 1475
ST CLOUD, MN 56302