



SOLD TO
E27010 CITY OF EL DORADO
220 E 1ST AVE
EL DORADO, KS 67042-0792

SHIP TO
CITY OF EL DORADO
222 E 2ND ST
EL DORADO, KS 67219

Sold By: 084879 PO #: E27010
Ship By: Tax #: KS

Date 12/16/14 RENTAL INVOICE RW17362
15:16:17 PRT: 2

Tax	D	Qty	Description	Price	Amount
			GROUP : 01 PERIODIC BILLING FROM 12/01/14 TO 12/28/14		
00000			Contract # 006643		
			CASE RENTAL		
000002			UNIT: P04728 7B WHL LDR		5490.00
			MAKE: CASE		
			SERIAL#: NCF215462	MODEL: 621FXR	
			DATE OUT: 11/17/14 726.0	DESCRIPTION: 7B WHL LDR	
				DATE IN:	
000002			UNIT: P04778 7C W LDR BKT		
			MAKE: JRB	MODEL: 3.50 YD	
			SERIAL#: AKR20385	DESCRIPTION: 7C W LDR BKT	
			DATE OUT: 12/01/14	DATE IN:	
			** TOTAL CASE RENTAL		5490.00
			FREIGHT RENTAL		
00000			DELIVER UNIT TO CUSTOMER		330.00

RENTAL OF A CASE 621F WHEEL LOADER WITH A BUCKET.

UNIT WAS DELIVERED TO CUSTOMER ON 11-17-14. DID NOT START THE RENT TILL 12-1-14 TO GIVE CUSTOMER SOME LOANER TIME WHILE THERE UNIT IS IN VLP'S SHOP FOR REPAIRS - ALSO DISCOUNTED RATE WHILE CUSTOMERS UNIT IN SHOP.

FREIGHT CHARGES ARE FOR DELIVERING THE UNIT TO CUSTOMER.

00000 CLOSED BY

007-034-5210
009-011-5210
001-031-5210

****RENTAL EQUIPMENT CAN BE SOLD AT ANYTIME****
A finance charge of 1.5% per month of the option price will apply.
**** RENTAL INVOICES ARE DUE UPON RECEIPT ****

** SUBTOTAL 5820.00
** DISCOUNT 1098.00

X Charge Sale

PAY THIS
AMOUNT

\$4722.00

CREDIT MEMO

SOLD TO
E27010 CITY OF EL DORADO
220 E 1ST AVE
EL DORADO, KS 67042-0792

SHIP TO

EL DORADO, KS 67219

Sold By: 084879 PO #: RW17362 CREDIT Date 12/31/14 RENTAL INVOICE RW17400
Ship By: Tax #: KS 13:11:45 PRT: 1

Tax	D	Qty	Description	Price	Amount
			GROUP : 01		
00000			CASE RENTAL		
			UNIT: P04728 7B WHL LDR		1647.00
			MAKE: CASE		
			SERIAL#: NCF215462		
			DATE OUT: 12/31/14		
			MODEL: 621FXR		
			DESCRIPTION: 7B WHL LDR		
			DATE IN:		

CREDIT DIFFERENCE BETWEEN WHAT WAS BILLED ON RW17362 TO MAKE THE RENTAL
EQUAL A HALF RATE RENTAL WHILE CUSTOMERS MACHINE IN VLP'S SHOP.

00000 CLOSED BY

007-034-5218

****RENTAL EQUIPMENT CAN BE SOLD AT ANYTIME****
A finance charge of 1.5% per month of the option price will apply.
***** RENTAL INVOICES ARE DUE UPON RECEIPT *****

** SUBTOTAL 1647.00

X Charge Sale

PAY THIS
AMOUNT

\$1647.00

49220

SOLD TO
E27010 CITY OF EL DORADO
220 E 1ST AVE
EL DORADO, KS 67042-0792

SHIP TO

#155

007-034-3207

CASE 521D 04 SN:JEE0137282 HR 8584.0 W:21 C:
Sold By: CF PO #: Date 1/08/15 SERVICE INVOICE WW37865
Ship By: Tax #: KS 19:38:56 PRT: 22

Tax	D	Qty	Description	Price	Amount
01 SERVICE CALL-NO START, INTERMITTANTLY					
			PARK BRAKE LOCKED-NO FORWARD OR REVERSE		
			CASE LABOR		
			PARTS FRT & HDL		
			00000 PARTS FREIGHT		219.85
			00000 TRUCK FRT TO SHOP		287.50
			00000 MILEAGE		
			00000 116 SERVICE CALL MILEAGE 2 TRIPS	2.90	336.40
			00000 SHOP SUPPLIES		216.18
			00000 EPA CHARGE		
			00000 ENVIRONMENTAL CHARGES		158.09
			PARTS-SHOP		
			00000 1 CAS 1994716C1 SWITCH	127.60	127.60
			00000 1 CAS 389487A1 SWITCH, LI CA2 C 1D	207.90	207.90
			00000 1 CAS 87311970 HARNESS	2230.00	2230.00
			00000 1 CAS 87340748 HARNESS	1067.00	1067.00
			00000 1 CAS 8605685 HARNESS	512.60	512.60
			00000 1 CAS 8604542 VALVE, HYD 34 D 5	380.60	380.60
			00000 1 CAS 87710744R REMAN-CLUS	2090.00	2090.00
			00000 1 CAS 87710744C CORE	400.00	400.00
			00000 1 CAS 87427310R REMAN ELEC	2540.00	2540.00
			00000 1 CAS 87427310C CORE	340.00	340.00
			00000 1 CAS 84385610 SWITCH PRE	223.30	223.30
			00000 1 CAS 87427310R REMAN ELEC	2540.00	2540.00
			00000 1 CAS 87427310C CORE	340.00	340.00
			00000 1 CAS 8603625 HARNESS, W PB2 4	390.50	390.50
			00000 2 CAS 87453965 GASKET A9 B 4	15.90	31.80
			00000 2 CAS 87712670 O-RING OR D 2C	7.92	15.84
			00000 1 CAS 87712669 SENSOR	52.80	52.80
			00000 1 CAS 84177015 SWITCH PRE	82.50	82.50
			00000 1 CAS 279492A1 SWITCH, RE	15.30	15.30
			00000 1-CAS 87710744C CORE CORE	400.00	-400.00
			00000 1-CAS 87427310C CORE-ELECT	340.00	-340.00
			** TOTAL PARTS-SHOP		12847.74

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All parts returns are subject to a restock fee of 15% of the cost of the part.

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220 E 1ST AVE
EL DORADO, KS 67042-0792

SHIP TO

CASE 521D 04 SN:JEE0137282 HR 8584.0 W:21 C:
Sold By: CF PO #: Date 1/08/15 SERVICE INVOICE WW37865
Ship By: Tax #: KS 19:38:56 PRT: 22

Tax	D	Qty	Description	Price	Amount
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SERVICE CALL TO MACHINE-INTERMITTANT NO START CUSTOMER COMPLAINT, CHECKED BATTERIES STARTER RELAY, BATTERIES PASSED LOAD TESTING AND RELAY HAS POWER IN BUT NO POWER LEAVING TOWARD SARTER. SECOND TRIP TO MACHINE WITH REPLACEMENT STARTER RELAY, REMOVED AND REPLACED STARTER RELAY, ATTEMPTED TO START MACHINE, MACHINE STARTED MULTIPLE TIMES. ATTEMPTED TO MOVE MACHINE BUT NO FORWARD OR REVERSE MOVEMENT, CALLED AND HAD TRUCKING COMPANY HAUL MACHINE TO SHOP FOR FURTHER DIAGNOSIS AND REPAIR. ATTEMPTED TO TEST TRANSMISSION SHIFT SOLENOIDS AND FOUND THEM TO BE DAMAGED, TRACED HARNESS BACK TO SOURCE AND FOUND MULTIPLE OVERLOAD POWER DAMAGED WIRES AND ELECTRICAL COMPONENTS. BEGAN REMOVING HARNESSES AND DAMAGED COMPONENTS FOR REPLACEMENT, TRANSMISSION CONTROL MODULE AND MAIN MACHINE ELECTRONIC CONTROL MODULE/INSTRUMENT CLUSTER BOTH INOPERATIVE AND APPARENT HEAT DAMAGES IN HARNESSES TO AND FROM MODULES. REMOVED AND REPLACED MULTIPLE RELAYS, MODULES AND HARNESSES THROUGHOUT THE MACHINE. REPLACED DAMAGED ELECTRONIC-HYDRAULIC COMPONENTS IN THE TRANSMISSION AND PARK BRAKE CIRCUIT

* SEGMENT SUBTOTAL 26404.56

02 CUSTOMER SATISFACTION-SERVICE MACHINE

CASE INT EXP LB

** TOTAL CASE INT EXP

PARTS-SHOP

00000	1	CAS	84491498	FILTER, HY	23	A	2	N/C	
00000	1	CAS	373391A1	AIR CLEANER				N/C	
00000	1	CAS	84228488	FILTER, EN	13	C	1	N/C	
00000	1	CAS	D139225	FILTER INL	11	B	2	N/C	
00000	3	CAS	73341700	15W40 1GAL	30	END		N/C	
00000	1	CAS	FS1251	FUEL FILTE	B	5	A	5	N/C

SERVICED ENGINE AND CHANGED HYDRAULIC SYSTEM FILTER AT NO CHARGE UNDER CUSTOMER SATISFACTION IN CONSIDERATION FOR COSTS INVOLVED WITH LOADER REPAIR WORK.

* SEGMENT SUBTOTAL

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19,504.56

** SUBTOTAL 26404.56

X Charge Sale

PAY THIS
AMOUNT

\$26404.56

RECEIVED
JAN 20 2015

SOLD TO
E27010 CITY OF EL DORADO
220 E 1ST AVE
EL DORADO, KS 67042-0792

SHIP TO

BY: _____

CASE 521D 04 SN:JEE0137282 HR 8584.0 W:21 C:
Sold By: CF PO #: Date 1/08/15 SERVICE INVOICE WW37865
Ship By: Tax #: KS 19:38:56 PRT: 22

Work Order Summary

01 SERVICE CALL-NO START, INTERMITTANTLY	26404.56
02 CUSTOMER SATISFACTION-SERVICE MACHINE	
** TOTAL	26404.56

Tax	D	Qty	Description	Price	Amount
			GROUP : 01		

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SHIP TO
CITY OF EL DORADO
222 E 2ND ST
EL DORADO, KS 67219

Sold By: 084879 PO #: E27010
Ship By: Tax #: KS

Date 1/23/15 RENTAL INVOICE RW17417
15:22:41 PRT: 2

Tax	D	Qty	Description	Price	Amount
			GROUP : 01		
00000			Contract # 006643		
00000			CASE RENTAL		
00000			UNIT: P05152 7B WHL LDR		1830.00
			MAKE: CASE		
			SERIAL#: NCF216179		
			DATE OUT: 11/17/14 443.0		
			MODEL: 721F		
			DESCRIPTION: 7B WHL LDR		
			DATE IN: 1/12/15 503.0		
00000			UNIT: P04778 7C W LDR BKT		
			MAKE: JRB		
			SERIAL#: AKR20385		
			DATE OUT: 1/23/15		
			MODEL: 3.50 YD		
			DESCRIPTION: 7C W LDR BKT		
			DATE IN:		
			** TOTAL CASE RENTAL		1830.00
			MISC CHGS RNTL		
00000			2 BOXES OF DEF FLUID		21.00
			FREIGHT RENTAL		
00000			DELIVER CUSTOMERS UNIT		300.00
00000			RETURN RENTAL UNIT		300.00
			** TOTAL FREIGHT RENTAL		600.00
			FUEL RENTAL		
00000			33 GALLONS OF FUEL	5.50	181.50

RENTAL OF A CASE 721 WHEEL LOADER WITH A BUCKET AT HALF RATE FROM 12-29-14 THROUGH 1-12-15.

FUELED UNIT AND ADDED D.E.F. FLUID WHEN RETURNED.

FREIGHT CHARGES ARE FOR RETURNING CUSTOMERS UNIT AND BRINGING THE RENTAL UNIT BACK TO VLP.

00000 CLOSED BY

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****RENTAL INVOICES ARE DUE UPON RECEIPT****

007-034-5210

** SUBTOTAL 2632.50

X

Charge Sale

PAY THIS
AMOUNT

\$2632.50

SOLD TO
E27010 CITY OF EL DORADO
220 E 1ST AVE
EL DORADO, KS 67042-0792

SHIP TO

RECEIVED
FEB 25 2015

CASE 521D 04 SN:JEE0137282 HR 8592.4 W:21 C:
Sold By: CF PO #: Date 1/30/15 SERVICE INVOICE WW38130
Ship By: Tax #: KS 17:47:56 PRT: 2

Tax	D	Qty	Description	Price	Amount
			GROUP : 01		
			SERVICE CALL TO MACHINE-INOPERATIVE LIGHTS AND WIPERS		
			CASE LABOR		
			SHOP SUPPLIES		
			** TOTAL CASE LABOR		400.00
00000			SHOP SUPPLIES		24.00
			EPA CHARGE		
00000			ENVIRONMENTAL CHARGES		12.00

SERVICE CALL TO MACHINE-DIAGNOSE NO LIGHTS OR WIPERS. INSPECTED MACHINE, TIGHTENED FUSE HOLDER FOR FRONT AND REAR WIPERS. FOUND RIGHT REAR TAIL LAMP RUSTED AND CLEANED UP. CLEANED CONTACTS ON RIGHT FRONT TURN SIGNAL. ADJUSTED AIR CLEANER TO CLEAR THE HOOD WHEN OPENING AND CLOSING.

007-0345267
[Signature]

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All parts returns are subject to a restock fee of 15% of the cost of the part.

** SUBTOTAL 436.00

X Charge Sale

PAY THIS
AMOUNT

\$436.00

FEB 25 2015

SOLD TO
E27010 CITY OF EL DORADO
220 E 1ST AVE
EL DORADO, KS 67042-0792

SHIP TO

CASE 521D 04 SN:JEE0137282 HR 8604.0 W:21 C:
Sold By: CF PO #: Date 1/30/15 SERVICE INVOICE WW38152
Ship By: Tax #: KS 18:57:54 PRT: 3

Tax	D	Qty	Description	Price	Amount
			GROUP : 01		
			SERVICE CALL TO MACHINE-LACK OF POWER IN TRAVEL		
			CASE LABOR		
			** TOTAL CASE LABOR		418.75
			MILEAGE		
00000		60	SERVICE CALL MILEAGE	2.90	174.00
			SHOP SUPPLIES		
00000			SHOP SUPPLIES		25.13
			EPA CHARGE		
00000			ENVIRONMENTAL CHARGES		12.56

SERVICE CALL TO MACHINE-CUSTOMER COMPLAINT POOR POWER WHILE TRAVELING ESPECIALLY UP AN INCLINE. CHECKED ENGINE RPM/SPEED, DROVE MACHINE, PUT IN A LARGE PILE TO CHECK WHILE UNDER WORK LOAD, WOULD ONLY SPIN TIRES IN FIRST GEAR. TESTED ENGINE STALL, JUST UNDER SPECIFICATION(S), CHECKED TRANSMISSION TORQUE CONVERTOR STALL, WELL WITHIN SPECIFICATION(S), TESTED HYDRAULIC STALL, AGAIN IN SPECIFICATION(S). INDICATIONS POINT TO ENGINE ALONE PERFORMING POORLY. INSPECTED ENGINE AND FOUND LEAKAGE(S) NEAR BELL HOUSING AND VALVE COVERS. CHECKED AND LUBRICATED THROTTLE LINKAGE AT INJECTOR PUMP, PERFORMANCE ISSUE(S) WOULD SUGGEST FUEL DELIVERY PROBLEM, SUGGEST REPLACING INJECTOR PUMP AND GASKETS, INJECTORS AND FUEL FILTERS.

007-031 5207
J

All invoices are due in 30 days unless otherwise specified.
Rental invoices are due on receipt.
All parts returns are subject to a restock fee of 15% of the cost of the part.

** SUBTOTAL 630.44

X Charge Sale

PAY THIS
AMOUNT



\$630.44

SOLD TO
E27010 CITY OF EL DORADO
220 E 1ST AVE
EL DORADO, KS 67042-0792

SHIP TO

CASE 521D 04 SN:JEE0137282 HR 8592.4 W:21 C:
Sold By: PH PO #: WW38130 Date 2/26/15 SERVICE INVOICE WW38258
Ship By: Tax #: KS 13:17:04 PRT: 2

Tax	D	Qty	Description	Price	Amount
			GROUP : 01		
			CREDITING CUSTOMER PER B ESTERLY		
			CASE LABOR		
			** TOTAL CASE LABOR		400.00
			CASE INT EXP LB		
			** TOTAL CASE INT EXP L		
			SHOP SUPPLIES		
00000			EPA CHARGE		24.00
00000					12.00

007 034-5207
H

All invoices are due in 30 days unless otherwise specified.
Rental invoices are due on receipt.
All parts returns are subject to a restock fee of 15% of the cost of the part.

** SUBTOTAL 436.00

X Charge Sale

PAY THIS
AMOUNT



\$436.00

SOLD TO
E27010 CITY OF EL DORADO
220 E 1ST AVE
EL DORADO, KS 67042-0792

SHIP TO

CASE 521D 04 SN:JEE0137282 HR 8604.0 W:21 C:
Sold By: PH PO #: WW38152 Date 2/26/15 SERVICE INVOICE WW38259
Ship By: Tax #: KS 13:18:46 PRT: 2

Tax	D	Qty	Description	Price	Amount
GROUP : 01					
CREDITING CUSTOMER PER B ESTERLY					
CASE LABOR					
					** TOTAL CASE LABOR 418.75
CASE INT EXP LB					
					** TOTAL CASE INT EXP L
MILEAGE					
00000	60-			2.90	174.00
SHOP SUPPLIES					
00000					25.13
EPA CHARGE					
00000					12.56

007-034-5207
M

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All parts returns are subject to a restock fee of 15% of the cost of the part.

** SUBTOTAL 630.44

X _____

Charge Sale

PAY THIS
AMOUNT



\$630.44

SOLD TO
E27010 CITY OF EL DORADO
220 E 1ST AVE
EL DORADO, KS 67042-0792

SHIP TO

CASE 521D 04 SN:JEE0137282 HR 8792.0 W:21 C:
Sold By: CS PO #: Date 5/11/15 SERVICE INVOICE WW38450
Ship By: Tax #: KS 11:31:21 PRT: 5

Tax	D	Qty	Description	Price	Amount
			GROUP : 01		
			PARKING BRAKE NOT WORKING		
			CASE LABOR		
			MILEAGE		
00000		60	SHOP SUPPLIES	2.90	174.00
00000			SHOP SUPPLIES		42.78
00000			EPA CHARGE		21.39
00000			ENVIRONMENTAL CHARGES		
00000		1	CAS 8603631 KIT A8 E 2A	275.00	275.00
			SERVICE CALL TO MACHINE TO DIAGNOSE PARKING BRAKE FOR BEING INOPERABLE. REMOVED PARKING BRAKE CALIPER, FOUND WORN OUT. INSTALLED NEW BEAKE PADS. ADJUSTED PARKING BRAKE AND CHECKED BRAKE FUNCTIONS, VERIFIED REPAIR.		

00000 *THANK YOU PENNY HORNBERGER*

1552

All invoices are due in 30 days unless otherwise specified.
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All parts returns are subject to a restock fee of 15% of the cost of the part.

** SUBTOTAL 1226.17

X Charge Sale

PAY THIS
AMOUNT



\$1226.17

SOLD TO *** emailed ***
E27010 CITY OF EL DORADO
220 E 1ST AVE
EL DORADO, KS 67042-0792

SHIP TO
CITY OF EL DORADO
222 E 2ND
EL DORADO, KS 67042

Sold By: JBL PO #: SCOTT
Ship By: Tax #: KS

Date 7/07/15 INVOICE
23:06:30 PRT: 2 IW39325

Tax	D	Qty	Description	Price	Amount
			GROUP : 01		
			PARTS FRT & HDL		
00000			FREIGHT		14.40
			COUNTER PARTS		
00000		1	CAS 87314314 BEARING	215.60	215.60
00000			CLOSED BY		

007.034.5307

#1552

RECEIVED
JUL 10 2015
CITY OF EL DORADO
KANSAS
DEPARTMENT HEAD

** SUBTOTAL 230.00

Charge Sale

PAY THIS
AMOUNT



\$230.00

SOLD TO *** emailed ***
E27010 CITY OF EL DORADO
220 E 1ST AVE
EL DORADO, KS 67042-0792

SHIP TO
CITY OF EL DORADO
PUBLIC WORKS
SCOTT
222 E 2ND AVE
EL DORADO, KS 67042

Sold By: ML PO #: 521D JEE0137282 Date 9/08/15 INVOICE
Ship By: Tax #: KS 23:06:33 PRT: 2 IW39910

Tax	D	Qty	Description	Price	Amount
			GROUP : 01		
			PARTS FRT & HDL		
00000			FREIGHT		10.53
			COUNTER PARTS		
00000		1	CAS 87588665R	661.20	661.20
00000		1	CAS 87588665C	100.00	100.00
			REMAN-JOYST		
			CORE		
00000			CLOSED BY MARK LONG		

007-034-5307

\$1552

13

** SUBTOTAL 771.73

Charge Sale

PAY THIS
AMOUNT



\$771.73

SOLD TO *** emailed ***
E27010 CITY OF EL DORADO
220 E 1ST AVE
EL DORADO, KS 67042-0792

SHIP TO
CITY OF EL DORADO
PUBLIC WORKS
222 E 2ND AVE
EL DORADO, KS 67042

Sold By: JBL PO #: IW39910 Date 9/11/15 CREDIT MEMO CW08764
Ship By: Tax #: KS 8:36:51 PRT: 1

Tax	D	Qty	Description	Price	Amount
			GROUP : 01		
			COUNTER PARTS		
00000		1	CAS 87588665C CORE-JOYSTI	100.00	100.00
00000			CLOSED BY JAMIE LIVINGSTON		

007-034-5307

13

** SUBTOTAL 100.00

Charge Sale

PAY THIS
AMOUNT

\$100.00

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E27010 CITY OF EL DORADO
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SHIP TO
CITY OF EL DORADO
PUBLIC WORKS
222 E 2ND AVE
EL DORADO, KS 67042

Sold By: JBL PO #: IW41756 Date 4/25/16 CREDIT MEMO CW08861
Ship By: Tax #: KS 23:06:29 PRI: 2

Tax	D	Qty	Description	Price	Amount
			GROUP : 01		
			COUNTER PARTS		
00000		1-CAS	87408480	SENDER UNIT 32 TOP 2	85.80
00000		1-CAS	1543256C1	KIT-SEAL PB1 F 8	52.80
			** TOTAL COUNTER PARTS		138.60
00000			CLOSED BY JAMIE LIVINGSTON		

007-034-5307

** SUBTOTAL 138.60

Charge Sale

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\$138.60

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EL DORADO, KS 67042-0792

SHIP TO
CITY OF EL DORADO
PUBLIC WORKS
222 E 2ND AVE
EL DORADO, KS 67042

#1552

8

CASE 521D 04 SN: JEE0137282 HR 9698.0 W:21 C:1552
Sold By: MP PO #: 1552 Date 7/28/16 SERVICE INVOICE WW39808
Ship By: Tax #: KS 8:06:31 PRT: 13

Tax	D	Qty	Description	Price	Amount
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01 FIELD CALL, NO LOADER FUNCTIONS, CUSTOMER SMELLED BURNT WIRES.

CASE LABOR				** TOTAL CASE LABOR	317.50
PARTS FRT & HDL					
00000 FREIGHT					14.39
SHOP SUPPLIES					
00000 SHOP SUPPLIES					47.85
EPA CHARGE					
00000 ENVIRONMENTAL CHARGES					23.93
PARTS-SHOP					
00000 1 CAS 8604542 VALVE, HYD 34 D 5				380.60	380.60
00000 1 CAS 326845A1 RELAY CA2 A 1F				22.50	22.50
				** TOTAL PARTS-SHOP	403.10

INTERNAL FAILURE OF THE PILOT CONTROL RELAY, PILOT CONTROL SOLENOID GETTING HOT CAUSING HIGH AMPERAGE TO THE PILOT CONTROL RELAY. CAB TO CHASSIS GROUND STRAP HAD CORROSION, RELAY GROUND TO CAB GROUND WAS LITTLE TO NONE (0.0000 OHMS) 7/14/16 CHECKED FOR POWER AT THE PILOT CONTROL SOLENOID AND I DID NOT HAVE POWER, CHECKED FOR POWER AT THE PILOT CONTROL RELAY AND I HAD POWER, SWAPPED LIGHT RELAY WITH PILOT RELAY AND THAT BROUGHT POWER TO THE PILOT CONTROL SOLENOID, STARTED MACHINE AND WORKED THE LOADER FUNCTIONS, AFTER 5 MINUTES OF OPERATION THE PILOT CONTROL SOLENOID WAS EXTREMELY HOT. THIS SOLENOID GETTING HOT IS CAUSING HIGHER AMPERAGE IN THE PILOT ELECTRICAL CIRCUIT, CAUSING THE RELAY TO FAIL. THE RELAY AND SOLENOID BOTH NEED REPLACED. 7/15/16 2ND TRIP - I RELIEVED ALL HYDRAULIC PRESSURE FROM MACHINE BY MOVING PILOT JOYSTICK AND PRESSING THE BRAKE PEDAL, REMOVED HYDRAULIC TANK CAB TO REMOVE PRESSURE, INSTALLED TANK CAP. REMOVED OLD SOLENOID, INSTALLED NEW SOLENOID, INSTALLED NEW PILOT CONTROL RELAY, STARTED MACHINE AND OPERATED HYDRAULICS, ALL LOADER FUNCTIONS WORKED AND SOLENOID DID NOT GET HOT, INSTALLED COVER TO PILOT CONTROL VALVE AND SHUT FUSE PANEL DOOR. 7/19/16 3RD TRIP - DROVE TO MACHINE, REMOVED COVER TO PILOT CONTROL VALVE, TURNED KEY SWITCH ON AND I DID NOT HAVE VOLTAGE TO THE PILOT CONTROL SOLENOID, TURNED THE PILOT SHUTOFF SWITCH ON AND OFF, THIS RESET AND I NOW HAD VOLTAGE TO THE COIL, OPERATED THE BUCKET UP AND DOWN ABOUT 15 TIMES IT NEVER SHUTOFF BUT THE RELAYS WERE GETTING HOT. CHECKED FOR CONTINUITY IN THE GROUND CIRCUIT FOR THE PILOT CONTROL SOLENOID AND THE PILOT CONTROL RELAY, I HAD 0.7 OHMS TO THE SOLENOID BUT 0.000 TO THE RELAY, CHECKED MAIN CAB GROUND CONNECTION TO

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E27010 CITY OF EL DORADO
220 E 1ST AVE
EL DORADO, KS 67042-0792

SHIP TO
CITY OF EL DORADO
PUBLIC WORKS
222 E 2ND AVE
EL DORADO, KS 67042

CASE 521D 04 SN: JEE0137282 HR 9698.0 W:21 C:1552
Sold By: MP PO #: 1552 Date 7/28/16 SERVICE INVOICE WW39808
Ship By: Tax #: KS 8:06:31 PRI: 13

Tax	D	Qty	Description	Price	Amount
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CHASSIS GROUND AND IT WAS THE SAME 0.0000, REMOVED THE RIGHT LOWER CAB COVER AND REMOVED THE CAB TO CHASSIS GROUND, FOUND CORROSION ON THE TOP STUD ON THE CAB, CLEANED BOTH GROUND STUDS AND CLEANED THE GROUND STRAP AND REINSTALLED, CHECKED AGAIN FOR CONTINUITY ON THE GROUND CIRCUIT TO THE RELAY AND I NOW HAVE 0.7 OHMS WHICH IS A GOOD GROUND, CHECKED CAB TO CHASSIS GROUND IT TOO WAS 0.7 AFTER WE CLEANED THE GROUND STRAP. .
INSTALLED PILOT CONTROL RELAY AND CONNECTED THE PILOT CONTROL SOLENOID AND OPERATED THE BUCKET UP AND DOWN, THIS TIME I WENT UP AND DOWN AROUND 50 TIMES, CHECKED HOW HOT THE RELAYS WERE AND THEY ALL FELT ABOUT THE SAME, THEY WERE WARM BUT NOT EXTREMELY HOT LIKE BEFORE. INSTALLED THE PILOT CONTROL VALVE COVER AND RIGHT LOWER CAB COVER. I ALSO FOUND THE MAIN GROUND WIRE FROM THE BATTERIES TO THE ENGINE HAD A LOT OF OIL AND DIRT ON THEM; I REMOVED AND CLEANED ALL GROUND WIRES FROM THE BATTERY TO ENSURE THE ENTIRE MACHINE HAS A GOOD GROUND CONNECTION.

* SEGMENT SUBTOTAL 806.77

80 MACHINE INSPECTION N/C

* SEGMENT SUBTOTAL

98 TRAVEL TIME AND MILEAGE

CASE LABOR

** TOTAL CASE LABOR 480.00

MILEAGE

00000 90 MILEAGE (3 TRIPS) 2.90 261.00

00000 *THANK YOU

* SEGMENT SUBTOTAL 741.00

All invoices are due in 30 days unless otherwise specified.
Rental invoices are due on receipt.
All parts returns are subject to a restock fee of 15% of the cost of the part.

** SUBTOTAL 1547.77

Charge Sale

PAY THIS
AMOUNT

\$1547.77

#1552

SOLD TO *** emailed ***
E27010 CITY OF EL DORADO
220 E 1ST AVE
EL DORADO, KS 67042-0792

SHIP TO
CITY OF EL DORADO
PUBLIC WORKS
222 E 2ND AVE
EL DORADO, KS 67042

CASE 521D 04 SN: JEE0137282 HR 9701.0 W:21 C:1552
Sold By: MP PO #: 1552 Date 7/28/16 SERVICE INVOICE WW39833
Ship By: Tax #: KS 8:06:31 PRT: 11

Tax	D	Qty	Description	Price	Amount
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01 FIELD CALL, PARK BRAKE STUCK ON.

WO# 1473 007-034-5207

CASE LABOR

** TOTAL CASE LABOR 518.50

00000	PARTS FRT & HDL				
00000	FREIGHT				6.64
00000	SHOP SUPPLIES				
00000	SHOP SUPPLIES				48.75
00000	EPA CHARGE				
00000	ENVIRONMENTAL CHARGES				24.38
00000	PARTS-SHOP				
00000	2 CAS 410939A1	BULB	CA2 G 1D	11.10	22.20
00000	1 CAS 84177015	SWITCH PRE		82.50	82.50
00000	1 CAS 326845A1	RELAY	CA2 A 1F	22.50	22.50
		** TOTAL PARTS-SHOP			127.20

INTERNAL FAILURE OF THE SERVICE BRAKE SWITCH SOLENOID AND THE BRAKE LIGHT RELAY. THE TWO BRAKE LIGHT BULBS ARE BURNT OUT AND NEED REPLACED (THE BULBS COMPLETE THE CIRCUIT FOR THE BRAKES, THE BRAKES NEEDS TO BE ENGAGED TO FOR THE TRANSMISSION TO GO INTO GEAR). DROVE TO MACHINE, FOUND THE MACHINE WOULD NOT MOVE UNLOCKED THE DOOR AND PUT KEY IN SWITCH CHECKED CODES IN MONITOR, FOUND CODE 1118.2, TRIED TO MOVE THE MACHINE AND FOUND THAT THE MACHINE WOULD NOT MOVE. CHECKED THE POWER TO THE RELAY AND HAD POWER AT THE PARK BRAKE RELAY, CHECKED THE BRAKE LIGHTS AND FOUND BURNT OUT. CHECKED THE POWER TO THE BRAKE LIGHT RELAY AND HAD POWER TO IT. CHECKED THE BRAKE PRESSURE AND ACCUMULATORS CHARGE PRESSURE FOR NITROGEN AND IT WAS FINE. CHECKED THE PARK BRAKE SWITCH AND FOUND THERE WAS NO CONTINUITY THROUGH THE SWITCH. JUMPED THE SWITCH AND TH BRAK LIGHT RELAY AND THE MACHINE WOULD MOVE WITH THEM BYPASSED. RETURNED TO SHOP AND ORDERED BRAKE LIGHT BULBS, RELAY, AND BRAKE LIGHT SWITCH. RETURNED TO JOB AND AND INSTALLED THE TWO BRAKE LIGHT BULBS AND THE RELAY, INSTALLED THE BRAKE LIGHT SWITCH AND PUT THE COVER BACK ON THE BOTTOM OF THE CAB. STARTED MACHINE AND LET THE BRAKE PRESSURE BUILD AND RELEASED THE PARK BRAKE. DROVE THE MACHINE AROUND IN FORWARD AND REVERSE THROUGH ALL 4 GEARS. TRANSMISSION SHIFTED SMOOTHLY. FOUND NO OTHER PROBLEMS. PARKED MACHINE, LOCKED IT UP, AND RETURNED TO SHOP.

* SEGMENT SUBTOTAL 725.47

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E27010 CITY OF EL DORADO
220 E 1ST AVE
EL DORADO, KS 67042-0792

SHIP TO
CITY OF EL DORADO
PUBLIC WORKS
222 E 2ND AVE
EL DORADO, KS 67042

CASE 521D 04 SN: JEE0137282 HR 9701.0 W: 21 C: 1552
Sold By: MP PO #: 1552 Date 7/28/16 SERVICE INVOICE WW39833
Ship By: Tax #: KS 8:06:31 PRT: 11

Work Order Summary

01 FIELD CALL, PARK BRAKE STUCK ON.	725.47
98 TRAVEL TIME AND MILEAGE.	468.00
** TOTAL	1193.47

Tax	D	Qty	Description	Price	Amount
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GROUP : 01

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CASE 521D 04 SN: JEE0137282 HR 9701.0 W: 21 C: 1552
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Tax	D	Qty	Description	Price	Amount
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98 TRAVEL TIME AND MILEAGE.

CASE LABOR

** TOTAL CASE LABOR 294.00

MILEAGE

00000	60	MILEAGE (2 TRIPS)	2.90	174.00
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LOCATION OF MACHINE. IT IS AT THEIR

00000 *THANK YOU

SEGMENT SUBTOTAL 468.00

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** SUBTOTAL 1193.47

Charge Sale

PAY THIS
AMOUNT



\$1193.47