

N29-19
MAY



Bobcat.
of EDMONTON

CUSTOMER #:

31003898S

PIONEER OILFIELD RENTALS ULC
PIONEER OFFROAD
9520 51 AVE
EDMONTON, AB T6E 5A6
HOME:780-454-1010 CONT:780-454-1010
BUS: CELL:

INVOICE

DUPLICATE 3
PAGE 1

www.calmont.ca
14566 Yellowhead Trail
Edmonton, AB, T5L 3C5
Phone: (780) 448-4522

SERVICE ADVISOR: 15395 TAYLOR LAWRENCE

COLOUR	YEAR	MAKE/MODEL	VIN	LICENSE	ODOMETER IN/ OUT	TAG
	17	BOBCAT 5600	AHG814301		1/3551	T4301

DEL DATE	PROD. DATE	WARR. EXP.	PROMISED	PO NO.	RATE	PAYMENT	INV. DATE
01JAN17 DD			17:00 01MAY26		0.00	CASH	04MAY26

R.O. OPENED	READY	OPTIONS:
12:40 22APR26	14:21 04MAY26	STK:R10311 10)GROUP-UTV

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

A DOESNT START, JUST CRANK, POSSIBLE INJECTOR ISSUE
 99-000-0001 DOESNT START, JUST CRANK, POSSIBLE
 INJECTOR ISSUE
 15301 CBOB 720.00 720.00
 PARTS: 0.00 LABOR: 720.00 OTHER: 0.00 TOTAL LINE A: 720.00

1
 15301:towed unit in not starting
 pulled codes with service analyser and unit was faulting for ecu no
 communication found that the ecu relay was in the incorrect location,
 installed it on the correct location and stopped faulting for that
 found that the fuel filter was removed and had a clear line
 installed on it
 removed the passeneger seat and found that the injector fuel lines
 where removed
 reinstalled the fuel lines
 tried to start the unit and would fault for p0087 fuel rail
 pressure build up
 tried to run a imv test and the test would not run
 installed a test imv and the test ran and unit still would not
 start
 tied to run a injector buz test and would not run
 installed and programmed a test ecu and there was no change
 reinstalled the original ecu
 cranked the unit and monitored the fuel rail and would build up to
 10000 psi, cranked with the imv unplugged and the rail pressure would
 build to 29000psi ok
 installed the test led light on the injector and cranked the unit
 and the light would be on solid till the fault
 installed a test imv and was able to run a test on it and was
 working ok but unit would still not start
 installed a test fuel rail pressure sensor and found that it is
 reading correctly
 installed a led light on the injector to see it it was trying to
 fire and it is until the fault returns and

Terms: Net 10th of month following.
Interest of 2% (26.4% per annum) if overdue.

DESCRIPTION	TOTALS
LABOUR AMOUNT	
PARTS AMOUNT	
GAS, OIL, LUBE	
SUBLET AMOUNT	
MISC. CHARGES	
TOTAL CHARGES	
LESS INSURANCE	
G.S.T	
PLEASE PAY THIS AMOUNT	

CUSTOMER SIGNATURE

GST No. 78180 7482 RT0001

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checked that fuel rail presser on crank and builds up to 10,000 psi
checked that fuel is making it to the injectors and it is
checked that the posi air shut off was not closed and found to be
open ok
removed the glow plugs and ran a compression test and passed
installed a test injecto to the fuel line and cranked the unit and
the test injector would fire
inspected for why 4 injectors failed
pulled the rail pressure sensor out and uses a cotton swab and
swabbed the fuel rail.
it came out dirty with some metal on it indicating that the fuel
pump is starting to fail
quoted a fuel system
15310: got cust supplied parts removed the injectors and cleaned
the matting surface
removed the fuel rail and installed the new one
removed the hp pump moved the gear to the new pump and installed
the pump to the unit
installed the fuel lines and installed the fuel filter correctly
and tied off the hoses
installed new hp fuel lines
re used the fuel line from the pump to the rail but cleaned it out
set the trim codes and reset learn data
started up the unit and ran the unit for 30 min at different rpm
installed the seats and panels
washed the unit and put the old parts in the cab
test operated the unit and got it hot. the engine was performing
good

B** replace broken glow plugs							
99-000-0001 replace broken glow plugs						90.00	90.00
15301 CBOB						93.21	186.42
2 7030400 GLOW PLUG					98.12		
PARTS: 186.42	LABOR: 90.00	OTHER: 0.00			TOTAL LINE B:		276.42

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SUBLET AMOUNT	
MISC. CHARGES	
TOTAL CHARGES	
LESS INSURANCE	
G.S.T	
PLEASE PAY THIS AMOUNT	

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Table with columns: COLOUR, YEAR, MAKE/MODEL, VIN, LICENSE, ODOMETER IN/ OUT, TAG. Includes details for BOBCAT 5600, VIN AHG814301, and service dates.

Table with columns: LINE, OPCODE, TECH, TYPE, HOURS, LIST, NET, TOTAL

1 15301: had to replace 2 glow plugs at the nuts had broke off when removing them
C** replace fuel filter
99-000-0001 replace fuel filter
15301 CBOB
1 7400454 FILTER FUEL
1 EHC2 +8
PARTS: 123.10 LABOR: 90.00 OTHER: 1.25 TOTAL LINE C: 214.35

D** REPLACE ALL FOUR INJECTORS, CUSTOMER SUPPLIES INJECTORS AND LINES
99-000-0001 REPLACE ALL FOUR INJECTORS, CUSTOMER SUPPLIES INJECTORS AND LINES
15301 CBOB
4 7030434 SPACER
4 7368298 O-RING
1 7516849 RAIL COMMON
CORE CHARGE C
1 7030391 TUBELINE
1 7030413 O-RING
1 7516847 PUMP FUEL INJECTION
CORE CHARGE C
-1 7516849 CORE RETURN
-1 7516847 CORE RETURN
PARTS: 6443.65 LABOR: 1440.00 OTHER: 0.00 TOTAL LINE D: 7883.65

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Table with columns: DESCRIPTION, TOTALS. Rows include LABOUR AMOUNT, PARTS AMOUNT, GAS, OIL, LUBE, SUBLET AMOUNT, MISC. CHARGES, TOTAL CHARGES, LESS INSURANCE, G.S.T, PLEASE PAY THIS AMOUNT.

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