



## SERVICE INVOICE

1409-4  
BLUE-MAR

SMS EQUIPMENT INC.  
16116 - 111 AVENUE  
EDMONTON AB T5M 2S1  
TEL: +1-780-451-2630  
SMS CONTACT: ERIK VAN WOUW

INVOICE # : SSI/70374664  
INVOICE DATE : 2023-May-08  
CUSTOMER PO : PO# 330  
ORDER # : WO2981227  
ORDER DATE : 2023-Feb-17  
SHIP DATE : Not applicable  
PAYMENT TERMS : NET 30 DAYS  
DELIVERY TERMS : Not applicable

**BILL TO:**  
TERRAPRO INC.  
53345 RANGE ROAD 232  
SHERWOOD PARK AB T8A 4V2

**WORK SITE:**  
SMS EQUIPMENT INC.  
16116 - 111 AVENUE  
EDMONTON AB T5M 2S1

Manufacturer : KOMATSU  
Model : PC240LC-10  
Serial Number : 90057  
Service Rep : BARRY BOUTIN

Customer Unit No :  
Meter Reading : 10749.4  
SMS Unit No : MD0012715

### SEGMENT 2: ENGINE RUNNING RUFF

Bring machine up to shop to trouble shoot engine running rough. Machine was working normally until it reached 60 Celsius coolant, then when idled down turbo would surge. Installed test gauge for turbo/egr control oil pressure. Measured 1.3 mpa, spec 1.2 mpa min at idle. Warmed machine up again, oil pressure remained OK at hfi then when returned to idle pressure steadily dropped until reaching 0.79mpa, turbo was surging. Installed test gauge to engine main oil pressure and repeated test. Engine oil pressure remained good during all rpm and while hot, boost oil dropped off again. Removed under guards install a test fitting directly off boost pump.

Removed ccv assembly and bracket to access egr valve. Remove and clean egr and vgt epc, no visibly failure. Swapped epc around then ran machine. Brought machine up to 90 Celsius coolant temp and hyd up to 70 Celsius. Turbo fluttered. Boost oil pressure at 1.0mpa but still below spec. Removed egr valve to access oil inlet fitting. Removed fitting and removed dime filter, it was dirty. Cleaned filter and reinstalled, then reinstalled egr valve. Ran machine up to previous temps turbo started fluttering at idle again and boost oil pressure dropped to 0.9 mpa. Informed supervisor of findings. Ordered new egr valve and boost oil pump. Removed old boost oil pump disassemble and find some wear marks on relief valve. Installed new pump and test boost pressure. Replaced EGR connector as it was cracke dand lock was broken. Found pressure better but drops off to below spec at 85 c coolant. Replaced EGR valve and test operation , found pressure remains constant through temp range . Tested unit and found no more issues. Installed all guards. Cleaned batteries and replaced bad clamps.

	DESCRIPTION	QUANTITY	UNIT PRICE	CORE CHARGE	DISCOUNT	NET AMT
PARTS	6755-41-9201	1	3,039.80	0.00	0.00	3,039.80
	VALVE					
PARTS	6755-11-9110	1	6.77	0.00	0.00	6.77
	GASKET					
PARTS	6755-11-9220	1	17.08	0.00	0.00	17.08
	GASKET					
PARTS	6755-21-9910	1	1,290.97	0.00	0.00	1,290.97
	PUMP					
PARTS	6751-21-1220	1	15.86	0.00	0.00	15.86
	GASKET					
PARTS	08000-00020	1	42.61	0.00	0.00	42.61
	TERMINAL					
PARTS	08000-00021	1	42.61	0.00	0.00	42.61
	TERMINAL					
LABOR						3,906.00
MISC.	SHOP SUPPLIES	1.00	273.42		0.00	273.42
MISC.	ENVIRONMENTAL CHARGE	1.00	117.00		0.00	117.00

### SEGMENT 2 TOTAL:

PARTS 4,455.70      LABOR 3,906.00      MISC. 390.42      DISCOUNT 0.00      TOTAL 8,752.12  
(EXCLUDING ENV. LEVY)      ENV. LEVY 0.00

GST/TPS 89548 3022



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### SEGMENT 3: DAMAGED FRONT WINDOW & FRAME

Front window assemble frame was bent and hard to open, wore out guide wheels and cracked glass.  
Front assembly was ordered and new frame and window assembly was installed into unit.

	DESCRIPTION	QUANTITY	UNIT PRICE	CORE CHARGE	DISCOUNT	NET AMT
PARTS	2A5-53-00051 WINDOW ASS'Y	1	4,263.45	0.00	0.00	4,263.45
LABOR						372.00
MISC.	SHOP SUPPLIES	1.00	26.04		0.00	26.04
MISC.	ENVIRONMENTAL CHARGE	1.00	11.16		0.00	11.16

### SEGMENT 3 TOTAL:

PARTS 4,263.45      LABOR 372.00      MISC. 37.20      DISCOUNT 0.00      TOTAL 4,672.65  
(EXCLUDING ENV. LEVY)      ENV. LEVY 0.00

### SEGMENT 5: A/C BELT AND CHARGE SYSTEM

Recover ac refrigerant only 1 lbs was in the system. Performed leak test on system and recharge with 2.2 lbs. Replace worn ac belt and tested operation

	DESCRIPTION	QUANTITY	UNIT PRICE	CORE CHARGE	DISCOUNT	NET AMT
PARTS	04120-21747    V- BELT	1	76.33	0.00	0.00	76.33
LABOR	HET JM-Day-OVR	0.50	233.00		0.00	116.50
LABOR	HET JM-Day-REG	2.25	186.00		0.00	418.50
MISC.	SHOP SUPPLIES	1.00	37.45		0.00	37.45
MISC.	ENVIRONMENTAL CHARGE	1.00	16.05		0.00	16.05

### SEGMENT 5 TOTAL:

PARTS 76.33      LABOR 535.00      MISC. 53.50      DISCOUNT 0.00      TOTAL 664.83  
(EXCLUDING ENV. LEVY)      ENV. LEVY 0.00

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THANK YOU FOR YOUR BUSINESS!

**REMIT PAYMENT TO:**

VIA REGULAR MAIL: or

SMS EQUIPMENT INC.  
C/O CX2572C (CAD PAYMENT)  
OR CX2572U (USD PAYMENT)  
PO BOX 2591  
CALGARY, AB T2P 0A3

VIA COURIER:

Indicate this address on the waybill

SYMCOR WHOLESALE LOCKBOX  
C/O CIBC LOCKBOX -  
C/O CX2572C (CAD PAYMENT)  
OR CX2572U (USD PAYMENT)  
SMS EQUIPMENT INC.  
3663 63RD AVE NE  
CALGARY, AB T3J 0G6

PARTS (EXCLUDING ENV. LEVY):	8,795.48
LABOR:	4,813.00
MISC.:	481.12
DISCOUNT:	(0.00)
ENVIRONMENTAL LEVY:	
SUBTOTAL:	14,089.60
GST/TPS	704.48

**TOTAL (CAD) 14,794.08**