



INVOICE SSI/25256	INVOICE DATE 03-24-2022
PAYMENT TERMS NET 30 DAYS	

GREAT WEST EQUIPMENT
12623 CHARLIE LAKE FRONTAGE RD
FORT ST JOHN BC V1J 2B0
250-785-4223

CUSTOMER C00004756
CUSTOMER PO EC220D - 210728

SERVICE INVOICE

INVOICE TO:

J BUECKERT LOGGING
BOX 214
CECIL LAKE BC V0C 1G0

WORK SITE:

J BUECKERT LOGGING
BOX 214
CECIL LAKE BC V0C 1G0

SALES REP :	SERVICE ORDER : W08001862
CONTACT : BILL (250) 261-8730	REF :

Volvo Const. Equipment MODEL:EC220DFC S/N:VCEC220DE00210728 CUST UNIT:323 UNIT:ECRE00993
METER 1 : 10074 Hrs
METER 2 : 0

SEGMENT : 1 REPAIR ELECTRICAL FAULT WORK ORDER FIELD
SEGMENT TYPE : Chargeable

Volvo Const. Equipment MODEL:EC220DFC S/N:VCEC220DE00210728 CUST UNIT:323 UNIT:ECRE00993
WORK SITE: J BUECKERT LOGGING BOX 214 CECIL LAKE BC V0C 1G0
METER : 10,976.00 LOCATION :
WORK DESCRIPTION:
REPAIR ELECTRICAL ISSUES

CAUSE:
ACTIVE CODES FOR J1939 KEY PAD MISSING VECU AND IECU
ALSO INACTIVE CODE FOR EGR ACTUATOR MQ2505-2

CORRECTION:
LOAD UP PARTS AND SUPPLIES. REMOVE RIGHT SWITCH COVER TO GET TO KEY PAD TO CHECK POWER, GROUND AND J939 ONCE
REMOVED KEYPAD CAN SMELL BURNT ELECTRONICS, REMOVE KEYPAD BUTTON COVER INTERNALLY BURNT. MESSAGE SHOP TO GET NEW
KEYPAD ORDERED.

LOOK UP INFO AND TESTS FOR EGR ACTUATOR DO ACTUATOR TESTING WITH TECHTOOLS.

ITEM/LOT ID	DESCRIPTION	QTY	PRICE	CORE	TOTAL
14594714	CONTROLLER - VECHICLE SYSTEM	1	1,956.86	0.00	1,956.86
	K				
	SHOP SUPPLIES	1.00	71.96		71.96
	PARTS FREIGHT IN	1.00	50.75		50.75
LABOUR					
SEGMENT 1 TOTAL:					
	1,956.86 PARTS	757.50 LABOUR	122.71 MISC.	141.86 TAX	2,978.93 TOTAL

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SEGMENT : 2 EATS FAILURE CODE WORK ORDER FIELD

SEGMENT TYPE : Chargeable

Volvo Const. Equipment MODEL:EC220DFC S/N:VCEC220DE00210728 CUST UNIT:323 UNIT:ECRE00993

WORK SITE: J BUECKERT LOGGING BOX 214 CECIL LAKE BC V0C 1G0

METER : 10,976.00

LOCATION :

WORK DESCRIPTION:
 REPAIR EATS CODES

CAUSE:
 HAS INACTIVE CODE FOR EGR ACTUATOR MO2505-2 COUNT OVER 255

CORRECTION:
 TRAVEL TO 11KM 5000RD AND BACK

LOOK OVER INFO AND TESTS FOR EGR ACTUATOR. DOD ACTUATOR TESTING WITH TECH TOOLS. ACTUATOR SLOW TO RESPOND, DOES NOT ALWAYS GO TO ZERO WHEN ENDING ACTUATOR TESTS.

TRAVEL TO 6.5 KMM ON THE 5000RD AND BACK.

GET OPERATOR TO PARK MACHINE ON FLAT GROUND, DRAIN COOLANT, AND REMOVE PANEL OVER EXHAUST. REMOVE EGR VENTURI AND EGR ACTUATOR. UNDO MOUNTING BOLTS FOR COOLER AND PULL COOLER OFF ENGINE. EXHAUST BOLTS ON COOLER WERE SEIZED, HAD TO WORK THEM BACK AND FORTH TO GET THEM OFF WITHOUT BREAKING THE STUDS. SWAP NECESSARY PARTS FROM OLD COOLER TO NEW COOLER. COOLANT PIPES ON ACTUATOR WHERE SEIZED ON SO I HAD TO HEAT THEM WITH TORCH TO GET THEM OUT. INSTALL NEW COOLER ON MACHINE WITH NEW VALVE AND GASKETS. INSTALL ACTUATOR. INSTALL VENTURI WITH NEW GASKETS. FILL ENGINE WITH COOLANT AND BLEED SYSTEM. START MACHINE. LET MACHINE WARM UP TO TEMPERATURE. CHECK FOR LEAKS, CLEAR CODES. DO EGR FUNCTION TEST AND MAKE SURE SENSORS AND FLOW ARE WHERE THEY SHOULD BE. HAD INACTIVE CODE FOR ECU MISCOMMUNICATION, TEST HARNESS, CONTINUITY AND POWER WERE FINE. COULD NOT PROPERLY DIAGNOSE WITH CODE INACTIVE, RECOMMEND EMULATOR REPLACEMENT.

ITEM/LOT ID	DESCRIPTION	QTY	PRICE	CORE	TOTAL
21723371	PLUG	1	65.36	0.00	65.36
21728873	ACTUATOR - EGR CONTROL 12V/24V	1	2,843.79	0.00	2,843.79
21725129	NIPPLE KIT	2	83.74	0.00	167.48
20847074	O-RING	2	20.10	0.00	40.20
21905341	GASKET	2	103.13	0.00	206.26
22397427	COOLER - EGR KIT	1	6,240.39	0.00	6,240.39
	SHOP SUPPLIES	1.00	402.56		402.56
	MILEAGE	480.00	1.50		720.00
	MILEAGE	480.00	1.50		720.00
	FUEL SURCHARGE	14.00	10.00		140.00
	PARTS FREIGHT IN	1.00	57.10		57.10
LABOUR					4,237.50

SEGMENT 2 TOTAL:

9,563.48 PARTS 4,237.50 LABOUR 2,039.66 MISC. 792.04 TAX 16,632.68 TOTAL

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SALES TAX DETAILS:		
GST	-@5%	933.90

PARTS		11,520.34
LABOUR		4,995.00
MISC.& EC		2,162.37
SALES TAX		933.90
INVOICE TOTAL	(CAD)	19,611.61
BALANCE AMOUNT		19,611.61

REMIT TO:

AR DEPARTMENT
GREAT WEST EQUIPMENT
123 L&A CROSSROAD
VERNON BC V1B 3S1

I/We hereby authorize work to be performed and acknowledge my/our indebtedness to Great West Equipment for work performed.

Authorized Signatory

Date

Invoices in arrears are subject to service charges of 1.5% per month (19.6% per annum). Special Order parts are non-returnable without prior approval. Restocking charges of 15% may apply on all returns. All manufacturer's names, numbers, symbols and descriptions are used for reference only and it is not implied that any part listed is the product of the manufacturer's LIMITED WARRANTY. No additional costs over and above the value of the part, or any other consequential damages are covered by this warranty. You the buyer are protected from defective material or workmanship on the part of the manufacturer. In the event the part proves defective, the manufacturer may replace it free of charge. Great West Equipment reserves the right to charge storage on any machine stored on it's premises. There is no warranty coverage for used parts.