

05 KW
DN 2723

Service Invoice - Summary

BILL TO:

Invoice Number	
Invoice Date	04-30-21
Amount Due	4,233.28
Customer PO Number	
Customer Account #	
PSO / WO. #	
TO VIEW AND PAY ONLINE	
USE THIS ENROLLMENT CODE:	

Make: CATERPILLAR	Equipment #:
Model: C15	Machine ID #:
Serial #: 0MXS08692	Meter Reading: 71810.0

PAGE
1 of 5

SEG	DESCRIPTION	PARTS	LABOR	MISC	TOTAL
	TOTAL				4,233.28
01	TROUBLESHOOT VALVE ACTUATOR				
02	REMOVE & INSTALL ENG ELECTRONIC CONT MOD				
03	RERATE ENGINE				
04	REPAIR WIRE HARNESS (MAST)				
SUBTOTAL					
TOTAL					4,233.28

Customer No.	Invoice Date
	04-30-21
Invoice Number	Amount
	4,233.28

INVOICE NUMBER	INVOICE DATE	CUSTOMER NO.	CUSTOMER PURCHASE ORDER NUMBER	STORE	DIV	SALESMAN	TERMS	PAGE
	04-30-21							2 of 5
PSO/NO. NO.	DOC. DATE	PC	LC	MC	SHIP VIA		INV. SEQ. NUMBER	
	04-20-21			C				
MAKE	MODEL	SERIAL NUMBER			EQUIPMENT NUMBER		METER READING	MACH ID.NO
AA	C15	0MX308692			120		71910.0	
QUANTITY	ITEM	*N/R	DESCRIPTION			UNIT PRICE		EXTENSION

TROUBLESHOOT VALVE ACTUATOR

SOLENOID

COMPLAINT: IVA CODES

CAUSE: ECM

CORRECTION: CUSTOMER HAS BEEN HAVING TROUBLE WITH ENGINE BEING DERATED DUE TO ACTIVE IVA CODES. THEY HAVE ALREADY REPLACED MANY PARTS INCLUDING INTERNAL AND EXTERNAL HARNESSSES, IVA HOUSING AND STUDS. SWITCHED THE ECM WITH ANOTHER MXS PREFIX ENGINE AND DROVE IT OVER 60 MILES AND DIDN'T HAVE ANY IVA RELATED CODES COME BACK. HAD AN ACTIVE OIL PRESSURE VOLTAGE HIGH CODE BUT THAT IS A SEPARATE ISSUE. IF THERE TRULY WAS AN IVA ISSUE IT SHOULD HAVE BECOME ACTIVE IN THAT AMOUNT OF TIME. QUOTED AN ECM AND OIL PRESSURE FOR REPLACEMENT.

1	6V-3964	WASHER	S	
3	9N-0869	WASHER	S	
		TOTAL PARTS		SEG. 01
				F/R I.B.R
		SEGMENT 01 TOTAL		

REMOVE & INSTALL ENG ELECTRONIC CONT MOD

COMPLAINT: CHANGE ECM

CAUSE: INTERNAL FAILURE

CORRECTION: AFTER DRIVING WITH A TEST ECM DETERMINED THE ORIGINAL ECM MUST HAVE AN INTERNAL ISSUE. REPLACED ECM AND FLASHED IT TO THE ORIGINAL SOFTWARE. UPLOADED THE INFORMATION FOR REPLACEMENT ECM AND THEN TEST DROVE TO MAKE SURE

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	04-30-21				T20						2	3 of 5
PSO/WO. NO.	DOC. DATE	PC	LC	MC	SHIP VIA					INV. SEQ. NUMBER		
	04-20-21	1C	1C	1C								
MAKE	MODEL	SERIAL NUMBER			EQUIPMENT NUMBER			METER READING		MACH ID.NO		
AA	C15	0NKS08692			T20			71610.0				
QUANTITY	ITEM		*N/R	DESCRIPTION				UNIT PRICE		EXTENSION		

THERE WERE NO OTHER ISSUES. NO CODES POPPED UP ON TEST DRIVE

ALSO CHANGED THE OIL PRESSURE SENSOR AT THIS TIME BECAUSE IT WAS MALFUNCTIONING ON TEST DRIVE. SEPARATE ISSUE. FOUND OUT IT WAS A WIRING ISSUE, WHERE WIRES WERE LOOSE RUBBING AND VIBRATING AGAINST A FUEL HOSE, CAUSING IT TOO LOOK LIKE IT WAS AN OPEN BECAUSE OF A BROKEN WIRE.

8	8T-9655	MOUNT	S	
1	194-6725	SENSOR GP-PR	S	
1	20R-8180	CONT GP -E	S	
1	214-7566	SEAL-O-RING	S	
		TOTAL PARTS		SEG. 02
				F/R LBR
-1		NAT-ENG-5573		
1		3 YEAR ESC ECM		
		SEGMENT 02 TOTAL		

RRATE ENGINE

COMPLAINT: RERATE ENGINE
CAUSE: RERATE TO 550 FROM 475
CORRECTION: RERATED ENGINE TO 550 HP

				F/R LBR
1		TRK UP-RATE CHG		
		TOTAL MISC CHGS		SEG. 03
		SEGMENT 03 TOTAL		

REPAIR WIRE HARNESS (MAST)

COMPLAINT: REPAIR HARNESS
CAUSE: BROKEN WIRES

Customer No.	Invoice Date
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INVOICE NUMBER	INVOICE DATE	CUSTOMER NO.			CUSTOMER PURCHASE ORDER NUMBER			STORE	DIV	SALESMAN	TERMS	PAGE
	04-30-21				T20						2	4 of 5
PSO/WO. NO.	DOC. DATE	PC	LC	MC	SHIP VIA					INV. SEQ. NUMBER		
	04-20-21	1C	1C	1C								
MAKE	MODEL	SERIAL NUMBER			EQUIPMENT NUMBER			METER READING		MACH ID.NO		
AA	C15	0HX05692			T20			71910.0				
QUANTITY	ITEM		*N/R		DESCRIPTION			UNIT PRICE		EXTENSION		

CORRECTION: DURING TEST DRIVE NOTICED THERE WAS AN ACTIVE CODE FOR OIL PRESSURE VOLTAGE HIGH INTERMITTENTLY, 100-3, INDICATING AN OPEN SITUATION. SINCE THE CUSTOMER HAD JUST REPLACED THE WIRING HARNESS RECENTLY FIGURED IT WAS THE OIL PRESSURE SENSOR. REPLACED THE SENSOR AND TORE BACK ALL THE PLASTIC COVERING ON THE HARNESS FROM WHEN IT WAS NEW AND FOUND 2 WIRES THAT HAD BEEN RUBBING AND ONE WAS COMPLETELY BROKEN THROUGH. NEEDED TO REPAIR WIRING. AFTER REPAIRING REROUTED THE HARNESS IN A FEW SPOTS AND SECURED IT AWAY FROM THE FUEL HOSES THAT IT HAD BEEN RUBBING ON. CLEARED THE CODES AND TOOK IT FOR A TEST DRIVE. OIL PRESSURE WAS READING MORE ACCURATE NOW AROUND 55PSI RUNNING DOWN THE ROAD INSTEAD OF 120PSI LIKE IT WAS BEFORE THE WIRE FINALLY BROKE

30	561.11075	HEATER HOSE SILICOS	
3	TYC/DCT110H1R	1P-STRAP HOSE	S
1	1P-7009	CLIP	S

TOTAL PARTS

SEG. 04
F/R LBR

SEGMENT 04 TOTAL

SOLD TO

SHIP TO

INVOICE NUMBER	INVOICE DATE	CUSTOMER NO.			CUSTOMER PURCHASE ORDER NUMBER			STORE	DIV	SALESMAN	TERMS	PAGE
	03-18-20							07	E		2	1
PSO/WO NO.	DOC DATE	PC	LC	MC	SHIP VIA						INVOICE SEQ. NO.	
	03-12-20	1C	1C	1C							1	
MAKE	MODEL	SERIAL NUMBER			EQUIPMENT NUMBER			METER READING		MACH. ID NO.		
AA	C15	0MXS08692										
QUANTITY	ITEM		*N/R	DESCRIPTION					UNIT PRICE		EXTENSION	

* * * PROFORMA INVOICE * * *

INSPECT CYL BLOCK, CRANK AND CAM. CALL WITH ANY
WORK NEEDED

INSPECT CYLINDER BLOCK

COMPLAINT: BLOCK IN NEED OF INSPECTION.

CAUSE: REQUEST.

CORRECTION: WASHED BLOCK AND INSTALLED MAIN CAPS.

INSPECTED BLOCK WHERE IT WAS FOUND TO NEED WATER
FERULES, UPPERS, LOWERS AND DECKED DUE TO DAMAGES
AROUND SEALING SURFACES.

F/R ALL

SEGMENT 01 TOTAL

INSPECT AND POLISH CAMSHAFT AND CRANKSHAFT

COMPLAINT: POLISH AND INSPECT CAMSHAFT AND
CRANKSHAFT

CAUSE: REQUEST

CORRECTION: POLISHED AND INSPECTED CAMSHAFT, MEETS
CAT REUSE SEBF8146.

POLISHED AND INSPECTED CRANKSHAFT, MEASURED
JOURNALS AND CLEANED OIL GALLEYS. CRANKSHAFT MEETS
CAT REUSE SEBF8042.

PAY THIS
AMOUNT ➤

CONT'D

AMOUNT
CREDIT ➤

CUSTOMER COPY

SOLD TO

SHIP TO

INVOICE NUMBER	INVOICE DATE	CUSTOMER NO.			CUSTOMER PURCHASE ORDER NUMBER			STORE	DIV	SALESMAN	TERMS	PAGE
	03-18-20							07	E		2	2
PSO/WO NO.	DOC. DATE	PC	LC	MC	SHIP VIA						INVOICE SEQ. NO.	
0710191	03-12-20	1C	1C	1C							1	
MAKE	MODEL	SERIAL NUMBER			EQUIPMENT NUMBER			METER READING		MACH. ID NO.		
AA	C15	0MXS08692										
QUANTITY	ITEM		*N/R	DESCRIPTION				UNIT PRICE		EXTENSION		

* * * PROFORMA INVOICE * * *

F/R ALL

SEGMENT 02 TOTAL

MACHINE/GRIND/MILL CYLINDER BLOCK

COMPLAINT: BLOCK IN NEED OF MACHINE WORK.
 CAUSE: DAMAGE AROUND SEALING SURFACES.
 CORRECTION: BORED LOWERS TO ACCEPT SLEEVES.
 SLEEVED LOWERS AND BORED SLEEVES TO CAT SPEC.
 COUNTERBORED BLOCK TO ACCEPT UPPERS AND WATER
 FERULE INSERTS. INSERTED BLOCK AND DECKED TO
 INSURE INSERTS EVEN WITH THE REST OF THE DECK.
 BLOCK MEETS CAT REUSE GUIDELINES.

F/R ALL

SEGMENT 03 TOTAL

PAY THIS AMOUNT	➤	CONT'D
AMOUNT CREDIT	➤	

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SHIP TO

INVOICE NUMBER	INVOICE DATE	CUSTOMER NO.		CUSTOMER PURCHASE ORDER NUMBER			STORE	DIV	SALESMAN	TERMS	PAGE
	03-18-20						07	E		2	3
PSO/WO NO.	DOC. DATE	PC	LC	MC	SHIP VIA					INVOICE SEQ. NO.	
	03-12-20	1C	1C	1C						1	
MAKE	MODEL	SERIAL NUMBER			EQUIPMENT NUMBER		METER READING		MACH. ID NO.		
AA	C15	0MXS08692									
QUANTITY	ITEM		*N/R	DESCRIPTION				UNIT PRICE		EXTENSION	

* * * PROFORMA INVOICE * * *

PAY THIS AMOUNT ➤	4877.93
AMOUNT CREDIT ➤	



CUSTOMER COPY

T20

PARTS INVOICE

Customer No:		Phone:	PO#:	Invoice No:		
Tax Status	Terms	Truck ID		Counter Person	Invoice Date	Due Date
TAXABLE	CHARGE				3/20/2020	4/10/2020

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Line	Part Number	Description	Ordered	B/O	Shipped	Each	Total
1	1090077	ORING OIL COOLR COR	2		2		
2	1425868	SEAL REAR CRNKSHFT 2	1		1		
3	1425867	SEAL GP	1		1		
4	KPNCB1220-Y200392	COUPON - \$2 OFF PAC	2		2		
5	RF59790943	SINGLE JOB ORING KI	1		1		
6	K251-571	FILTER-FRE ON	1		1		
7	0619455	SEAL	1		1		
8	0617540	SEAL O RIN G	2		2		
9	1135304	SEAL	2		2		
10	8C5230	SEAL O RIN G	2		2		
11	2385080	SEAL-O-RIN G	5		5		
12	6V6609	SEAL	1		1		
13	2147566	SEAL-O-RIN G	1		1		
14	RX10R2112	CORE AS OIL	1		1		
15	CX10R2112	CORE AS OIL	1		1		
16	1669144	GASKET	1		1		
17	2685582	SEAL	1		1		
18	2685589	SEAL	1		1		
19	D84-1000-3061460	BELT-POLY 6 RIBS X 1	1		1		
20	D84-1000-3082370	BELT-POLY 8 RIBS X 2	1		1		

CONTINUED...

CUSTOMER AUTHORIZATION AND AGREEMENT

PARTS INVOICE

Customer No:	Phone:	PO#:	Invoice No:
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Tax Status	Terms	Truck ID	Counter Person	Invoice Date	Due Date
TAXABLE	CHARGE			3/20/2020	4/10/2020

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Line	Part Number	Description	Ordered	B/O	Shipped	Each	Total
21	LF4377	COMPRESSOR -SHD A/C	1		1		
22	1317123	BEARING	1		1		
23	RX20R3317	ARM A V RO CK	12		12		
24	CX20R3317	CORE - ROC KER ARM	12		12		
25	RX20R3319	ARM A UI R OC	6		6		
26	CX20R3319	ARM A UI R OC	6		6		
27	3078322	SHAFT AS-R KR	2		2		
28	3078322	SHAFT AS-R KR	1		1		

SUBTOTAL
TAX
SUBLET
OTHER
SHIPPING

TOTAL DUE 8,163.72

CUSTOMER AUTHORIZATION AND AGREEMENT

PARTS INVOICE

Customer No:	Phone:	PO#:	Invoice No:
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Tax Status	Terms	Truck ID	Counter Person	Invoice Date	Due Date
TAXABLE	CHARGE			3/17/2020	4/10/2020

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Line	Part Number	Description	Ordered	B/O	Shipped	Each	Total
1	RX20R7411	KIT-ENG OV ER	1		1		
2	CX20R7411	CORE	1		1		
3	6I4421	PLATE SPAC ER	1		1		

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SUBTOTAL
TAX
SUBLET
OTHER
SHIPPING

TOTAL DUE 22,712.57

CUSTOMER AUTHORIZATION AND AGREEMENT