

Customer No.	Invoice Date
	02-28-19
Invoice Number	Amount
	27,707.17

INVOICE NUMBER	INVOICE DATE	CUSTOMER NO.	CUSTOMER PURCHASE ORDER NUMBER	STORE	DIV	SALESMAN	TERMS	PAGE
	02-28-19							7 of 7
PSO/WO. NO.	DOC. DATE	PC	LC	MC	SHIP VIA		INV. SEQ. NUMBER	
	02-08-19							
MAKE	MODEL	SERIAL NUMBER			EQUIPMENT NUMBER	METER READING	MACH ID.NO	
AA	C15	0SDP04216			07-41	353476.0		
QUANTITY	ITEM	*N/R	DESCRIPTION			UNIT PRICE	EXTENSION	

CYLINDERS WERE AVERAGING BETWEEN .004 - .005  
PROTRUSION IN THE END.

6

9Y-3368

INSERT LR S

TOTAL PARTS

SEG. 07

F/R LBR

SEGMENT 07 TOTAL

TOTAL PARTS DISCOUNT

KANSAS SALES TAX

SHAWNEE CO KS

TOPEKA KS

PAY THIS  
AMOUNT

27,707.17

USD

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#### TROUBLESHOOT ENGINE

COMPLAINT: TROUBLESHOOT/ENGINE

CAUSE: PRESSURE IN COOLING SYSTEM

COMPLICATION: NONE

CORRECTION: AFTER TRUCK WAS WASHED IT WAS RAN AND CHECKED FOR EXTERNAL LEAKS. AFTER THIS THE CAP WAS REMOVED AND PRESSURE TESTED. CAP TESTED GOOD. THEN A PRESSURE GAUGE WAS CONNECTED TO THE COOLING SYSTEM AND RAN TO THE CAB. THE TRUCK WAS THEN TEST DROVE AND UNDER LOAD THE PRESSURE BUILDS FAST. CHECKED CODES AND HAD LOGGED CODES FOR LOW COOLANT AND ENGINE OVER HEAT. POSSIBLE CRACKED HEAD OR BLOWN HEAD GASKET.

F/R LBR

SEGMENT 01 TOTAL

#### WASH ENGINE

COMPLAINT: WASH/ENGINE

CAUSE: DIRTY

COMPLICATION: NONE

CORRECTION: ENTIRE TRUCK WAS A MESS IT WAS PULLED INTO THE WASH BAY AND STEAM CLEANED.

F/R LBR

SEGMENT 02 TOTAL

#### RECONDITION IN FRAME ENGINE

WITH GOLD KIT

COMPLAINT: INFRAME ENGINE WITH GOLD KIT

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CAUSE: BLOWN HEAD GASKET AND CRACKED HEAD. THE FIRST TWO CYLINDER LINERS WERE FRETTED AND NEEDED COUNTERBORED.

CORRECTION: REMOVED EVERYTHING ATTACHED TO CYLINDER HEAD. REMOVED FAN AND FAN DRIVE ASSEMBLY TO GET TO PEANUT COVER BOLTS THAT WERE BEHIND THE FAN DRIVE. REMOVED CYLINDER HEAD ASSEMBLY. CHECKED HEAD FOR CRACKS AND FOUND SEVERAL ON EACH CYLINDER BETWEEN THE VALVE SEATS. BLOWN HEAD GASKET BETWEEN 1 AND 2, 2 AND 3. THERE IS NO CROSS HATCH LEFT IN THE REMAINING CYLINDERS EITHER. ENGINE NEEDS AN OVERHAUL. WAITING FOR CUSTOMERS DECISION ON WHICH WAY THEY WANT TO GO. CUSTOMER DECIDED TO INSTALL A GOLD KIT, REMAN CYLINDER HEAD, REMAN CAMSHAFT, AND ALL REMAN ROCKERS. COUNTERBORED HOLES TO FIX LINER PROTRUSION. THEY ALL AVERAGED .004-.005 WHEN DONE. ROLLED IN NEW MAIN BEARINGS AND THRUST PLATES. INSTALLED CYLINDER PACKS, AND CYLINDER HEAD. CLEANED UP INJECTORS AND INSTALLED WITH NEW SEALS AND BOLTS. INSTALLED CAM GEAR AND ADJUSTED BACKLASH. INSTALLED ROCKER ARMS WITH THE NEW BOLTS IN THE KIT. INSTALLED THE IVA HOUSINGS AND ADJUSTED OVERHEAD LIKE IT SAYS IN THE TESTING AND ADJUSTING. INSTALLED THE FAN DRIVE AND FAN ASSEMBLY. INSTALLED THE OIL PUMP AND OIL PAN. INSTALLED THE HIGH PRESSURE TURBO AND UPPER RADIATOR HOSE. ASSEMBLED THE REST OF THE ENGINE

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LIKE IT WAS WHEN IT CAME IN. INSTALLED NEW FUEL FILTERS, AND OIL FILTER. PRIMED THE FUEL SYSTEM, AND PRIMED THE ENGINE OIL. REUSED THE COOLANT SINCE IT TESTED OK, JUST ADDED A COUPLE OF GALLONS THAT WERE LOST. STARTED THE ENGINE AND GOT IT TO CALIBRATE. WASHED IT OFF REALLY GOOD AND THEN TEST DROVE IT. DIDN'T HAVE ANY LEAKS AT THIS TIME.

ALSO TOOK DPF OFF AND MADE SURE IT WAS DELETED. IT WAS ALSO MISSING A FEW PARTS FOR THE AFTERTREATMENT SYSTEM. BECAUSE OF THIS THE ENGINE DOES NOT HAVE ANY WARRANTY AND THE CUSTOMER IS AWARE OF THIS BEFORE THE OVERHAUL.

1	PRX25224	RIGHT STUFF GASKETS	
1	VT15088-620	5" V BAND CLAMP	S
10	TYC/DCT110HIR	IE-STRAP HOSE	S
4	2N-2766	LOCK NUT	S
2	3S-2713	NUT	S
1	6I-4421	PLATE SPACER	S
2	6V-1585	SEAL O RING	S
3	6V-5048	SEAL-O-RING	S
3	6V-5759	SEAL-O-RING	S
1	6V-6353	SEAL O RING	S
6	8S-9191	BOLT	S
2	9M-7958	CLAMP	S
1	102-9089	COVER	S
3	107-0583	BOLT LOCKING	S
6	112-3102	SEAL O RING	S

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3	119-0036		SCREW	S				
3	126-1756		LOCKING BOLT	S				
1	20R-0409		HEAD GP CYL	S				
1			CORE DEPOSIT	S				
-1			CORE CREDIT	S				
1	20R-3076		KIT ENG OVER	N				
1			CORE DEPOSIT	N				
-1			CORE CREDIT	N				
1	238-5081		SEAL-O-RING	S				
3	241-5682		CLIP	S				
1	284-3520		DUCT AS-INT-	N				
1	286-9133		VALVE AS-CHE	S				
10	326-4512		MOUNT-FIR TR	S				
2	379-8578		SHIELD AS	S				
1	X007805		SEALCLAMP	S				
			TOTAL PARTS		SEG. 03			
					F/R LBR			
1			00053					
			TOTAL MISC CHGS		SEG. 03			
			SEGMENT 03 TOTAL					

TRFR COMPONENTS TO/FROM CYLINDER HEAD ASSEMBLY  
 COMPLAINT: TRANSFER COMPONENTS FROM OLD CYLINDER  
 HEAD TO NEW REMAN HEAD  
 CAUSE: OLD HEAD WAS CRACKED BETWEEN VALVE SEATS  
 CORRECTION: ORDERED NEW REMAN CYLINDER HEAD,  
 STRIPPED ALL THE FITTINGS AND COMPONENTS FROM  
 HEAD. INSTALLED THEM ON NEW CYLINDER HEAD WITH

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NEW SEALS. REPLACED CAMSHAFT AND ROCKERS,  
REPLACED REAR CAM COVER, AND RESEALED EXHAUST  
MANIFOLD. PAINTED HEAD BEFORE INSTALLING.

F/R LBR

SEGMENT 04 TOTAL

PURCHASE CAMSHAFT

COMPLAINT: PURCHASE CAMSHAFT AND ROCKERS

CAUSE: CAMSHAFT FLAKING ALONG WITH A COUPLE OF  
ROLLERS ON THE ROCKERS

CORRECTION: ORDERED A REMAN CAMSHAFT AND ROCKERS  
TO INSTALL WHILE REPLACING THE CYLINDER HEAD.

1	10R-8193	CAMSHAFT	N
1		CORE DEPOSIT	N
-1		CORE CREDIT	S
12	20R-3317	ARM A V ROCK	S
12		CORE DEPOSIT	S
-12		CORE CREDIT	S
1	20R-3323	ARM A UI ROC	N
1		CORE DEPOSIT	N
5	20R-3323	ARM A UI ROC	N
5		CORE DEPOSIT	N
-6		CORE CREDIT	N

TOTAL PARTS

SEG. 05

SEGMENT 05 TOTAL

REMOVE & INSTALL MISCELLANEOUS OTHER ITEMS

COMPLAINT: SEGMENT TO ORDER MISCELLANEOUS PARTS TO

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CAUSE: PARTS ADDITIONAL TO THE INFRAME KIT  
CORRECTION: ORDERED FILTERS AND ADDITIONAL PARTS  
THAT WEREN'T PART OF THE INFRAME TO THIS SEGMENT.

1	561.16460	CAC Hose Cold CharS	
2	BREB9224-0413	BREEZE T-BOLT CLMPS	
10	3007913	DEO-15W40 BULK	S
12	4620	Non-Chlorinated VOS	
1	3V-3263	CONNECTOR	S
1	170-3519	HARNESS AS	S
3	238-8648	COOLANT-ELC	S
1	266-9682	COMPOUND WHI	S
		DISCOUNT 30.00%	
2	278-5711	GASKET	S
1	458-9587	PAINT-YELLOW	S
2	P534816	AIR PRMYRS	S
1	P551000	FF/WS SPIN	S
1	X007805	SEALCLAMP	S

TOTAL PARTS SEG. 06  
F/R LBR

SEGMENT 06 TOTAL

COUNTERBORE CYLINDER BLOCK

SET (ALL)

COMPLAINT: COUNTERBORE HOLES IN BLOCK

CAUSE: FRETTING IN BLOCK CAUSED HEAD GASKET TO  
BLOW.

CORRECTION: COUNTERBORE HOLES SO THAT THEY WERE  
ALL MATCHING. THEN CHECKED LINER PROTRUSION. ALL

## Service Repair Quotation

Quote Number .....  
Prepared By .....

Quote Date ..... :2019-02-13  
Valid Until ..... :2019-03-15

We are pleased to provide the following quotation for the services identified below

### PREPARED FOR

Customer Name .....  
Address .....

<b>Make</b>	<b>Model</b>	<b>Serial Number</b>	<b>Unit Number</b>
Cat	C15	0SDP04216	07-41

### Explanation of Type:

"Est." amounts may be more or less than your final invoice.

"Time & Material" items will be billed at the actual price of the time, parts and miscellaneous charges.

"Firm" Parts Labor Misc Items are firm priced and will be invoiced at that price.

### WORK TO BE PERFORMED

Segment	Description	Type	Amount
00	INSPECT TRUCK NON KDOT INSPECTION	Time & Material	
01	TROUBLESHOOT ENGINE	Firm Labor	
02	WASH ENGINE	Firm Labor	
03	RECONDITION IN FRAME ENGINE WITH GOLD KIT	Firm Labor	
	cylinder packs, head and basic seals, studs, sleeves, gaskets. NO WARRANTY WITH THIS OPTION DUE TO DPF HAS BEEN DELETED	Est. Parts	
04	TRFR COMPONENTS TO/FROM CYLINDER HEAD ASSEMBLY	Firm Labor	
05	PURCHASE CAMSHAFT Replace cam and lifters due to severe flaking and pitting.	Est. Parts	
06	REMOVE & INSTALL MISCELLANEOUS OTHER ITEMS	Firm Labor	
	Belts, hoses, fittings, clamps etc.	Est. Parts	

**Total of Firm Price Items**

**Total of Estimated Items**

**Total**

**24,137.68**



