INTERSTATE PowerSystems

407 ADVENTURELAND DRIVE NE ALTOONA, IA 500094224 PHONE: (515) 957-3300 FAX: (515) 957-3301

www.istate.com

ACCOUNT NUMBER: 124262

INVOICE NUMBER: R012043265:01
INVOICE DATE: 01/07/2015

INVOICE DATE: 01/0'
INVOICE TERMS: CASH

PURCHASE ORDER#: CK# 2008
VEHICLE#: 451684



SERVICE INVOICE

BILL-TO

2 U TRUCKING 33807 305TH AVE RICHLAND, IA 52585 SHIP-TO

2 U TRUCKING 33807 305TH AVE RICHLAND, IA 52585

Cust. Unit #:	703	Make:	FREIGHTLINER	Model:	CL120	Tag #:	GV
VIN: 1FUJA6	CK37LW29058	Model #:	CL120064ST	In Serv Date:	08/21/2006	Year:	2007
Engine S/N:	06R0896765	Model #:	6067HV6E	In Serv Date:		Mileage:	952,394
Tran S/N:	P0199860	Model #:	FRO-16210C	In Serv Date:		Eng Hrs:	0
Reefer S/N:		Model #:		In Serv Date:		Warr ID:	
APU S/N:		APU Gen S/N:		In Serv Date:		Date Crea	te: 12/18/2014
				BOM/Spec:			

Job#1 SHP-DETS60

SHOP - DDC S40/50/60 LABOR

S-CUST

Condition

CHECK & ADVISE FOR PUSHING WATER, WHITE SMOKE & POSSIBLE LEAKING HEAD GASKET

CONTACT: STEVE # 319-461-5609

Cause

Correction

PULLED UNIT IN SHOP, TOPPED OFF THE COOLANT SYSTEM, INSTALLED APPROPIATE GAUGE AND MONITORED, UNIT BUILT 15 PSI, IN ROUGHLY 10 SEC, HEAD IS CRACKED/GASKET BLOWN, ALSO COOLANT CONTAMINATED THE COOLER AND VALVE-WOULD RECOMMEND REPLACEMENT, GOT OK TO PULL HEAD, STORY.

Qty	Item	Description	Price Each	Extended
	!CandA	CHECK & ADVISE		116.00
1	DDE 05107607	HOSE	16.46	16.46
1	DDE 23530714	MHOSE P	14.83	14.83
2	DDE 08929875	HOSE	14.43	28.86
1	DDE 23513509	SEALANT GSKT	21.15	21.15
1	DDE 23536842	TUBE ASM	32.85	32.85
1	DDE 23539160	TUBE ASM	37.57	37.57
1	DDE 23530753	MTUBE P	68.90	68.90
1	DDE 23527385	SEAL RINGP	0.63	0.63
4	72310	HOSE CLAMP M	1.50	6.00
4	72306	HOSE CLAMP M28S	1.28	5.12
1	DDE 23507182	BOLT	7.15	7.15
10	DDE 23522281	BOLT ASSY	7.74	77.40
6	DDE 08929393	MBOLT PAC/24	2.55	15.30
2	DDE 23532326	MO-RING	3.40	6.80
2	DDE 08926958	CCLAMP	20.05	40.10
1	DDE 05137618	CLAMP	63.11	63.11
4	DDE 23531401	NUT P	5.15	20.60
4	DDE 08929169	WASHER	0.60	2.40
1	70R5032	WASHER #8 STAT-O-SEAL RED HNBR	1.16	1.16
2	70R5031	WASHER #6 STAT-O-SEAL RED HNBR	1.16	2.32

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	tal 116.00 por	Total Parts	765.80	Total Sub/Misc	0.00	881.80 Total
2	1025	PS DIE	SEL		12.05	24.10
1	OWI 23528203	COOLAN	T-GAL		9.83	9.83
1	DN P527682	ELEMEN	T, AIR FILTER	R, PRIMARY	68.55	68.55
1	70R5031	WASHER	#6 STAT-O-SE	CAL RED HNBR	1.16	1.16
1	70R5032	WASHER	#8 STAT-O-SE	CAL RED HNBR	1.16	1.16
2	70R5034	WASHER	#12 STAT-0-S	SEAL RED HNB	1.16	2.32
1	A22-59792-004	A.C. H	OSE		124.03	124.03
6	OWI 23528203	COOLAN	T-GAL		9.83	58.98
1	BRZ B9224 0425FRU	CLAMP			4.64	4.64
2	70R5034	WASHER	#12 STAT-0-S	SEAL RED HNB	1.16	2.32

Job#2 CI

COURTESY TRUCK INSPECTION

S-CUST

Condition

COURTESY TRUCK INSPECTION

Cause

PERFORMED INSPECTION. Correction

Qty Item		Descri	ption		Price Each	Extended
!Cai	nda-CI	COURTE	SY INSPECTION			0.00
Total Labor	0.00	Total Parts	0.00	Total Sub/Misc	0.00	0.00 Total

Job#3 SHP-DETS60

SHOP - DDC S40/50/60 LABOR

S-CUST

Condition | REPLACE RADIATOR & CAC

Cause

Correction

RECOVERED 1 LBS OF FREON, UNHOOKED AND REMOVED RADIATOR, CAC, AND CONDENSOR AS ONE - SWAPPED RADIATOR FRAME TO NEW RAD. INSTALLED NEW CAC, MOUNTED CONDENSOR, ORDERED MOUNT. INSTALLED NEW MOUNT, TIGHTEN THE SUPPORT BRACKETS FOR THE RADAITOR. INSTALL THE LOWER RADAITOR HOSE AND TIGHTEN THE CLAMP.

Qty	Item	Description		Price Each	Extended
	DETS60-GEN	SHOP - DDC S40/50		580.00	
1	AHD 8000-22PT	RADIATOR	730.20	730.20	
1	AHD FRT18122-N	CHARGE AIR COOLER	774.45	774.45	
1	BCD 28847 1	RADIATOR MOUNT	59.31	59.31	
1	90324	90324 PIPE BUSHING			1.31
1	14BV	1/4 BALL VAL		11.79	11.79
	COM-1	RAD S/N PT130857		0.00	0.00
	COM-1	A/A SN CAC17975		0.00	0.00
_	otal 580.00 abor	Total 1,577.06 Parts	Total Sub/Misc	0.00 Tot	2,157.06 cal

Job#4 *IPS-PKG000089 S60 EGR STEP 2

S-CUST

Condition

S60 EGR STEP 2



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INVOICE DATE: 01/07/2015

INVOICE TERMS: CASH PURCHASE ORDER#: CK# 2008 VEHICLE#: 451684



DRAINED COOLANT, REMOVED CAC PIPING, AIR CLEANER W/DUCTING, HEAT SHIELD, EXHAUST CLAMP, TURBO FEED LINE, AIR LINE TO ACTUATOR, SENSOR CONNECTIONS, TURBO MOUNTING BOLTS, TURBO, DELTA P ASSEMBLY W/VENTURI, BYPASS HOSE, UPPER RADIATOR HOSE, CAC PIPING/COLD PIPE ASSEMBLY, BRACKETS, RAIN TRAY W/WIPERS (HAD TO CUT COOLANT TANK MOUNTING BOLTS, VALVE COVER, JAKES, UNPLUGGED INJECTOR HARNESS (10PIN), ROCKER ASSEMBLY, INJECTORS, CAM CAPS AND CAM(FOUND THE THRUST PLATE BOLTS LOOSE-NOT TIGHT), INTAKE MANIFOLD, FUEL LINES, HEAD BOLTS (COUPLE BROKE INSIDE OF THE BLOCK), HEAD, PLUGGED HOLES ON ENGINE, THEN EXTRACTED THE BROKEN HEAD BOLTS, CLEANED BLOCK, AND INSPECTED, CHECKED AND RECORDED LINER PROTRUSION, THERE ARE A FEW LINERS OUT OF SPEC, AND WILL NEED TO BE ADRESSED-HEAD WILL NOT SEAL GASKET PROPERLY, CLEANED AND INSPECTED THE HEAD, FOUND PITTING AND GROOVES, INSPECTED THE GASKET-BETWEEN #3 AND #4 GASKET BLEW, THERE IS ALSO OTHER AREAS TO BE CONCERNED ABOUT, ALSO WHILE TAKING PARTS OFF THE UNIT INSPECTED THEM AND COLLECTED A LIST OF ITEMS NEEDED TO BE ADRESSED, RADIATOR BLOWN, AND COOLANT/WATER WAS GOING THROUGH THE EGR COOLER AND VALVE WHICH MAY CAUSE PREMATURE FAILURE, CAC WAS ALSO TAKING WATER AND INTAKE, MADE A PARTS ESTIMATE, STORY. DRAINED OIL, REMOVED PAN, OIL PUMP, PULLED KITS, PUT RODS IN WASHER, CLEANED GASKET MATERIAL OFF CAM AND COVERS, CLEANED MANIFOLD, AND MOUNTING BOLTS, PREPPED BOLTS, REMOVED WASHERS OFF THE HEAD BOLTS. CLEANED LINERS AND RODS ASSEMBLED PISTONS AND RODS. BOXED ALL OLD LINERS. STARTED REMOVING MAIN BEARING CAPS. FINISHED REMOVING #6 MAIN BEARING CAP CLEANED 2,3,5,6 MAIN CAPS, REMOVED NEW HEAD AND PUT OLD HEAD BACK IN BOX. INSTALLED FITTINGS IN NEW HEAD. REMOVED THERMOSTATS FROM THERMOSTAT HOUSING BEAD BLASTED HOUSING. REMOVE UPPER BEARING SHELLS FROM LOCATIONS WHERE CAPS HAD BEEN PREVIOUSLY REMOVED, CLEAN CRANKSHAFT ETC, FIT UPPER BEARING SHELLS. NOTE: - I HAD TO CAREFULLY REMOVE BURRS FROM BEARING TUNNEL IN ALL LOCATIONS IN ORDER TO GET UPPER BEARING SHELLS TO START. THIS OPERATION TOOK SOME CONSIDERABLE TIME BECAUSE OF THE LOCATION & PLUS THE CRANKSHAFT IS IN THE ENGINE. FIT PREVIOUSLY REMOVED CAPS WITH NEW BEARINGS. REMOVE REMAINING BEARING CAPS ETC. CLEAN UP ALL PARTS FOR THE ENGINE OIL COOLER, REASSEMBLE COOLER USING NEW GASKETS & SEALS ETC, CLEAN UP SEALING SURFACES ON ENGINE BLOCK ETC. GRIT BLAST TURBO RETURN TUBE & GET NUT FREE FROM TUBE SO AS IT CAN BE USED AGAIN. STRIP DOWN, CLEAN & INSPECT ENGINE OIL PUMP, LUBRICATE PARTS & REASSEMBLE PUMP, REFIT PUMP, SUCTION TUBE WITH NEW 'O' RINGS & GASKETS, FIT NEW OIL REGULATOR & PRESSURE VALVE WITH NEW GASKETS. FIT NEW SEALS ETC TO OIL COOLER MOUNT & REFIT OIL COOLER TO ENGINE, FIT NEW EGR COOLER WITH NEW COOLANT HOSE & CLAMPS TO ENGINE OIL COOLER, REFIT CAB HEATER COOLANT TUBES & BRACKETS ETC. FIT NEW OIL LINES FROM OIL COOLER TO EGR VALVE & MAKE UP BRACKETS TO SECURE LINES, REFIT TURBO OIL DRAIN TUBE ETC, REFIT ALL 'P' CLAMPS TO COOLANT TUBES ETC. REFIT ENGINE OIL PAN USING NEW GASKET & ISOLATORS. NEW ISOLATORS WERE NEEDED BECAUSE THE OLD ONES HAD SWELLED BEYOND USE. CLEAN UP EXHAUST MANIFOLD, FIT MANIFOLD TO CYLINDER HEAD, REMOVE ALL CAM CAPS, LIFT HEAD ONTO ENGINE, CONNECT FUEL LINES ETC. REMOVED THE ROCKER ARMS FROM THE BOX. OIL THE ROCKER ARMS. LUBRICATE, INSTALLL, & TORQUE HEAD BOLTS. PLACED THE OLD ROCKER ARMS IN THE BOX. REMOVED THE O-RINGS ON THE INJECTOR. INSTALL THE O-RINGS ON THE INJECTOR. HELP INSTALL THE CYLINDER HEAD ON THE BLOCK. REFIT ALL ROCKER ADJUSTERS TO ROCKERS ETC, CONNECT INJECTOR HARNESS, FIT NEW ROCKER SHAFT ASSEMBLYS & TORQUE DOWN TO 100ft lbs, RUN VALVE & INJECTOR SETTINGS, REMOVE SHORT ROCKER BOLTS & FIT ENGINE BRAKES, TORQUE DOWN TO 100 ft lbs. RESET BRAKES CLEARANCES. REFIT COOLANT FILL TUBE BRACKETS, REFIT EGR HOT PIPE BRAKETS ETC ONTO CAM GEAR HOUSING ETC. INSTALL VALVE COVER, INSTALLL THERMOSTATS & SEALS INTO HOUSING, INSTALL MIXER HOUSING, CONNECT SENSORS, CLEAN UP & REFIT A/C LINES AT COMPRESSOR & CONDENSOR USING NEW SEALS,

Qty	Item	Description	Extended		
	*IPS-DET000089	S60 EGR STEP 2	14,199.00		
	OTH-GEN	SHOP - OTHER LABOR			
1	DDE R23538858	CYLINDER HD (HWMA)			
-1	C23538858-CORE	CORE DEPOSIT			
1	DDE R23538418	O/H KIT 14L (hw)			
-1	C23538418-CORE	CORE DEPOSIT			
1	DDE 23533692	BRG AND GSKTKT			
1	DDE 23536019	HARNESS			
1	DDE 23539103	GASKET, ROCKER COVER			

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INVOICE TERMS: CASH PURCHASE ORDER#: CK# 2008

VEHICLE#:

451684



OIL PAN GASKET DDE 23539104 1 VALVE ASSY DDE 23512901 M--ELBOW ASSY 1 DDE 23528691 1 DDE E23535277 RKR ARM KIT ELEMENT-OIL FILTER 2 DN 23530573 ELEMENT-FUEL FILTER 1 23533816 DN BULK 1300S 15W40 (PER GAL) 10 MBL 23512740 COOLANT-GAL 6 OWI 23528203 BLTD FLG EG SEE R23535288 1 DDE E23535288 CORE DEPOSIT C23535288-CORE EGR VLV ASM 1 DDE R23539301 C23539301-CORE CORE DEPOSIT -1 CORE DEPOSIT -1 C23535277-CORE CORE DEPOSIT 1 C23538858-CORE CORE DEPOSIT 1 C23538418-CORE CORE DEPOSIT 1 C23535277-CORE CORE DEPOSIT 1 C23535288-CORE CORE DEPOSIT C23539301-CORE

Total Total Total 0.00 14,199.00 10,223.44 3,975.56 Sub/Misc Total Parts Labor

Job#5 SHP-DETS60 SHOP - DDC S40/50/60 LABOR

S-CUST

Condition

CUT COUNTER BORES

Cause

Correction

REMOVE PISTON OIL COOLING NOZZLES. REMOVE A/C LINES & OTHER LINES & EQUIPMENT TO GET BETTER ACCESS TO BLOCK TOP. CLEAN OFF BLOCK TOP. CHECK OVER & SET MACHINE CUTTER TOOL TO CUT # 6 COUNTER BORE WHICH ALREADY HAS AN INSERT FITTED, CUT OUT INSERT. CLEAN UP DEBRIS & CLEAN ALL SEALANT ETC FROM LIP. SET UP TOOLING TO PRESS NEW INSERT. MACHINE CUT REMAINING COUNTERBORES, CLEAN UP DEBRIS & REMOVE BURRS FROM EDGES OF CUT. FIT REMAINING INSERTS. HAND FILE NEW COUNTERBORE INSERTS DOWN LEVEL WITH BLOCK, CUT ALL COUNTERBORE INSERTS TO A DEPTH OF 0.352", CLEAN UP LINER BORES WHERE 'O' RING SEALS FIT ETC, CLEAN UP BOTTOM SIDE OF ENGINE ETC & CRANKSHAFT. RAISE VEHICLE & MAKE SAFE ON JACK STANDS. DRY FIT ALL LINERS TO BORES, MEASURE LINER HEIGHTS ETC, REMOVE 'O' RING SEALS PREVIOUSLY FITTED TO LINERS SO LINERS CAN BE PROPERLY CLEANED & DEGREASED BEFORE ASSEMBLY.

Qty	Item	Description		Price Each	Extended
	DETE600075	SL3:CYLINDER BORE INSERT (ONE):01.1	- REWORK FOR LINER		375.84
	DETE600081		FOR LINER INSERT -		939.60
6	DDE 23525500	MC/B SLEEVE	.11011111, 1011110 00	41.83	250.98
1	PT22006	CUTTER BIT		43.97	43.97
1	PT2000109	CUTTER BIT		67.82	67.82
_	otal 1,315.44 bor	Total 362.77 Parts	Total Sub/Misc	0.00 Tot	1,678.21

Job#6 SHP-DETS60

SHOP - DDC S40/50/60 LABOR

S-CUST

Condition

STORY CONTINUED FROM LINE # 4

Cause

ACCOUNT NUMBER: 124262 INVOICE NUMBER:

PURCHASE ORDER#: CK# 2008

INVOICE DATE:

INVOICE TERMS:

VEHICLE#:

R012043265:01

01/07/2015

CASH

451684

INTERSTATE PowerSvstems 4 6 1

407 ADVENTURELAND DRIVE NE ALTOONA, IA 500094224 (515) 957-3300 PHONE:

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Correction REFIT AIR CLEANER TUBING, CLEAN UP TURBO SEALING FACE & ELBOW TO CAC THEN REFIT TO TURBO. PROCURE & FIT OPROPRIATE 'P' CLAMPS ETC TO SECURE A/C LINES. REFIT RHS RADIATOR STAY ETC. REMOVE EGR HOT PIPE & INTAKE TUBE & COOLANT FILL TUBE ETC TO REPOSITION ALTERNATOR WIRING THAT WAS RESTING AGAINST EGR HOT PIPE THAT WAS PREVIOUSLY FITTED. CUT & REMOVE STRIPPED OUT 'P' CLAMP BOLT ON CAM BOX BRACKET SO COOLANT FILL TUBE CAN BE SECURED. REMOVE COOLANT SURGE TANK & LOCATE WINDSHIELD WASHER HOSES TO THE REAR OF THE TANK, REFIT TANK TO MOUNTS. FIT'P' CLAMPS TO COOLANT HOSES FROM SURGE TANK ETC, FILL COOLING SYSTEM WITH 12gls NEW COOLANT, CONNECT ENGINE TO COMPUTER & ENTER INJECTOR CALIBRATION CODES, PRIME FUEL SYSTEM, START & RUN ENGINE. DRAIN COOLING SYSTEM & NOTIFY CURTIS DEERY THAT LOWER RADIATOR HOSE IS LEAKING BADLY. DISCUSS WITH CURTIS REMAINING WORK NEEDED TO COMPLETE JOB. HAD TO DRAIN COOLANT TO FIX COOLANT HOSE CLAMPS, TIGHTENED UP ALL COOLANT HOSE CLAMPS, HAD TO REMOVED AIR CLEANER TO INSTALL CLAMP ON TURBO FEED LINE, THEN REINSTALLED HEAT SHIELD AND AIR CLEANER, INSTALLED COOLANT, CHANGED FUEL FILTER, VACCUMED AND RECHARGED AC SYSTEM, THEN WHEN RAN AC THEN AC LINE BLEW TO TOP OF CONDENSOR, INSTALLED WHEEL ON RIGHT SIDE. INSTALLED AC LINE WITH NEW SEALING WASHERS, VACUMED SYSTEM AND WOULD NOT HOLD VACCUME, TOOK BACK APART AND INSTALLED NEW SEALING WASHERS AGAIN STILL WONT HOLD VACCUME, SO LET TRUCK DOWN OFF STANDS, AND AJUSTED BRAKES, PUT NEW CAC CLAMP ON THAT WAS LEAKING, INSTALLED NEW AIR FILTER, TOOK TRUCK TO WASH BAY AND STEAMED OFF LET RUN OUT SIDE, CLEANED UP BAY AND THREW TRASH AWAY, PICKED UP TOOOLS, PULLED TRUCK IN AND NO LEAKS FOUND. NEED TO CONTINUE WITH FINDING AC LEAKS. LOCATE SUITABLE HOSE & FITTINGS FOR A/C NITROGEN BOTTLE, CONNECT TO SYSTEM & CHECK FOR LEAKS ETC. REMOVE TEST EQUIPMENT. CONNECT A/C MACHINE TO VEHICLE & PUT SYSTEM IN A VACUUM. RECHARGE SYSTEM WITH 3.75lbs FREON. START & RUN ENGINE & CHECK A/C OPERATION. TEST DROVE UNIT AND CHECKED OVER FOUND NO ISSUES AND HAD NO ISSUES.

Qty	Item	Description	Description		
1	DETS60-GEN	SHOP - DDC S40/5	0/60 LABOR		0.00
Tot. Labo	0.00	Total 0.00 Parts	Total Sub/Misc	0.00	0.00 tal

Paid, 7-15/

Labor/Diagnostic/Tech Services:	5,987.00
Misc. Charges:	0.00
Parts:	12,929.07
Sublet:	0.00
Shop Supplies (ESC)	0.00
Taxes:	1,134.97
Total:	20,051.04

Subject to the terms and conditions on the back of this invoice, including the disclaimer of implied warranties of merchantability and fitness for a particular purpose.

All claims must be accompanied by this invoice. Diagnostic or Technical service charge may apply.

Customer Signature:	Date:
ouscomer brymacure.	Date.

PowerSystems

407 ADVENTURELAND DRIVE NE ALTOONA, IA 500094224

PHONE: FAX:

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ACCOUNT NUMBER: 124262

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INVOICE DATE: INVOICE TERMS:

CASH

VEHICLE#:

451684



PRE-INVOICE

BILL-TO

2 U TRUCKING 33807 305TH AVE RICHLAND, IA 52585 SHIP-TO

2 U TRUCKING 33807 305TH AVE RICHLAND, IA 52585

Cust. Unit #: 703	Make:	FREIGHTLINER	Model:	CL120	Tag #:	CF
VIN: 1FUJA6CK37LW29058	Model #:	CL120064ST	In Serv Date:	08/21/2006	Year:	2007
Engine S/N: 06R0896765	Model #:	6067HV6E	In Serv Date:		Mileage:	953,317
Tran S/N: P0199860	Model #:	FRO-16210C	In Serv Date:		Eng Hrs:	0
Reefer S/N:	Model #:		In Serv Date:		Warr ID:	
APU S/N:	APU Gen S/N:		In Serv Date: BOM/Spec:		Date Crea	ite: 01/10/2015

Job#2 SHP-DETS60

SHOP - DDC \$40/50/60 LABOR

S-CUST

Condition ENGINE MISS & WILL NOT GO ABOVE 45 MPH

Cause

Correction I PULLED THE UNIT IN THE SHOP, CHECKED THE RETURN FUEL SPILL-BACK FOR ANY SIGNS OF AIR & FOUND THE SPILL-BACK FULL OF AIR. I STRONGLY SUSPECT AN INJ. TIP TO BE INTERMITENTLY ALLOWING COMBUSTION GASSES INTO THE RETURN FUEL SYSTEM. WE NEED TO REMOVE ALL SIX INJ'S & TEST THE TIPS FOR LEAKING.

Qty Item	Descrip			Price Ea	ch Extended
DETS60-GEN	SHOP - 1	DDC S40/50/	60 LABOR		0.00
Total 0.00 Labor	Total Parts	0.00	Total Sub/Misc	0.00	0.00 Total

Job#3 SHP-DETS60

SHOP - DDC S40/50/60 LABOR

S-CUST

Condition

TURBO KICKS IN & OUT EVERY 5 - 10 SECONDS

Cause

Correction

TOOK FOR A TEST DRIVE AND IT HAD GOOD POWER, BUILT GOOD BOOST. BROUGHT BACK AND CHECKED FOR LEAKS. NONE FOUND.

Qty Item	Description		Price Each	Extended
DETS60-GEN	SHOP - DDC S40/50/60	SHOP - DDC S40/50/60 LABOR		90.00
Total 90.00 Labor	Total 0.00 Parts	Total Sub/Misc	0.00 To	90.00 tal
Job#4 SHP-DETS60	SHOP - DDC S40/50/60 LABO	R		C CHCm

S-CUST

Condition

Cause

FUEL FILTER WAS EMPTY SATURDAY A.M.

Correction

I REMOVED & REPLACED THE DAVCO FUEL FILTER & COVER SEALS. I PRIMED THE FUEL SYSTEM, STARTED THE UNIT & CHECKED THE TANKS FOR ANY SIGNS OF AIR.=OK. THIS PORTION OF REPAIRS IS NOW COMPLETED. "DONE"

01 71			
Qty Item	Description	Price Each	The board of
THE RESERVE THE PERSON NAMED IN COLUMN TWO	1000112011	FLICE Dati	Extended

PowerSystems

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DETS60-GEN DN 23533816 SHOP - DDC S40/50/60 LABOR

15.59

24.00 15.59

Total

Total 15.59 Total

0.00

39.59

Labor

24.00

Parts

Sub/Misc

Total

Job#5 *IPS-PKG000121 S60 INJECTORS: BUY 5, GET 1 FREE

ELEMENT-FUEL FILTER

S-CUST

Condition | S60 INJECTORS: BUY 5, GET 1 FREE

Cause

Correction

I REMOVED THE RAIN GUTTER, ROCKER COVER, JAKES & ROCKER SHAFT ASSY'S. I PURGED THE FUEL FROM THE CYL. HEADS & REMOVED THE OLD FUEL INJ'S. (I VACUMN TESTED THE INJ TIPS & FOUND #1 INJ TIP WAS LEAKING.) I CLEANED THE INJ. TUBES & INSTALLED THE NEW SIX-PACK OF INJ'S. I REINSTALLED THE ROCKER SHAFT ASSY'S & TUNED THE ENGINE. I REINSTALLED THE JAKES & SET THE LASH. I INSTALLED THE ROCKER COVER, RAINGUTTER, PRIMED THE FUEL SYSTEM, INSTALLED THE CORRECT INJ. CAL. CODES IN THE ECM, STARTED & RAN THE ENGINE FOR LEAKS. = OK. I TOOK THE UNIT FOR A SHORT TEST DRIVE TO VALIDATE THE REPAIR. I FOUND THAT THE JAKES WERE NOT FUNCTIONING PROPERLY. I RETURNED TO THE SHOP, REMOVED THE RAIN GUTTER & ROCKER COVER TO GAIN ACCESS TO THE JAKE SOLENOIDS. I REMOVED & TESTED BOTH JAKE SOLENOID & FOUND ONE TOTALLY FAILED & THE OTHER SOLENOID LEAKED WHEN ENERGIZED. I CHECKED PRICE & AVAILABILITY ON TWO JAKE SOLENOIDS. WE ARE AWAITING APPROVAL TO REPLACE THE SOLENOIDS. WE REPLACED THE JAKE SOLENOIDS, REINSTALLED THE ROCKER COVER & RAIN GUTTER. I TOOK THE UNIT FOR A TEST DRIVE TO VALIDATE THE REPAIR. = OK. THIS PORTION OF REPAIRS IS NOW COMPLETED. "DONE"

Qty	Item	Descri	ption				Extended
	*IPS-DET000121	S60 INJE	CTORS: BUY 5,	GET 1 FREE			2,599.00
1	DDE R414703003S	INJECTOR	6PAK				
-1	C414703003S-CORE	CORE DEP	OSITE/INJECTOR6	5PAK			
6	DDE 08929393	MBOLT					
1	DDE 23539103	GASKET					
1	C414703003S-CORE	CORE DEP	OSITE/INJECTOR6	5PAK			
	otal 623.76 bor	Total Parts	1,975.24	Total Sub/Misc	0.00	Total	2,599.00

Job#6 SHP-DETS60 SHOP - DDC S40/50/60 LABOR

S-CUST

Condition

JAKE BRAKES ARE WEAK

Cause

I TOOK THE UNIT FOR A SHORT TEST DRIVE & FOUND THE JAKES WERE INOPERATIVE SOMETIMES & ALWAYS INOPERATIVE IN THE LOW POSITION & VERY WEAK WHEN THEY DID WORK IN THE HIGH POSITION. I RETURNED TO THE SHOP, PERFORMED THE TROUBLESHOOTING & IDENTIFIED BOTH JAKE SOLENOIDS FAILED, (THE LOW JAKE SOLENOID WAS COMPLETELY DEAD & THE HIGH JAKE SOLENOID LEAKED SO BAD THAT IT WOULD ONLY BARELY WORK.) I ALSO IDENTIFIED THE CLUTCH-PEDAL SWITCH WAS ONLY WORKING INTERMITTENTLY. (THIS IS ALSO THE REASON THAT THE CRUISE IS DROPPING OUT.) A NEW CLUTCH SWITCH IS ON ORDER, WHEN IT ARRIVES, THE CUSTOMER WILL BRING THE UNIT BACK TO HAVE IT INSTALLED.

Qty	Item	Description		Price Each	Extended
DETS60-GEN		SHOP - DDC S40/50/60) LABOR		48.00
2	DDE 1024612	SOLENOID		153.30	306.60
	otal 48.00 bor	Total 306.60 Parts	Total Sub/Misc	0.00 Tot	354.60



407 ADVENTURELAND DRIVE NE ALTOONA, IA 500094224

PHONE: FAX:

(515) 957-3300 (515) 957-3301

www.istate.com

ACCOUNT NUMBER: 124262 INVOICE NUMBER: R012043579

451684

INVOICE DATE:

INVOICE TERMS: CASH

VEHICLE#:



ASH

Labor/Diagnostic/Tech Services: 785.76
Misc. Charges: 0.00

Parts: 2,297.43 Sublet: 0.00

Shop Supplies (ESC) 0.00
Taxes: 184.99

Total:

3,268.18