

ACCOUNT NUMBER:  
 INVOICE NUMBER: R013075832  
 INVOICE DATE:  
 INVOICE TERMS: NET30

VEHICLE#: 390484  
 ORIG. DOCUMENT: E013005908

## PRE-INVOICE

BILL-TO

SHIP-TO

Cust. Unit #: 7019	Make: FREIGHTLINER	Model: CA125SLP	Tag #: cs
VIN: 3AKJGLDV7DSFE5894	Model #: PX125064ST	In Serv Date: 11/27/2012	Year: 2013
Engine S/N: 471903S0149037	Model #: D471903	In Serv Date: 11/27/2012	Mileage: 0 458,939.3
Tran S/N: P0620050	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 Create: 06/04/2019
		BOM/Spec:	

## Sold Operations

Job#1 SHIP-PD13

SHOP - DPC PD13 LABOR

S-CUST

Condition ENGINE LOCKED OUT

Cause

7019

Mileage 718,010

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### Sold Operations (Cont.)

#### Correction

PULLED TRUCK IN AND REMOVED GRILLE GUARD, BUMPER, INNER FENDERS AND HOOD. REMOVED FRONT CROSSMEMBER AND DRAINED COOLANT. REMOVED AIR CLEANER HOUSING. REMOVED AIR CLEANER HOUSING BRACKETS, COOLANT DISTRIBUTION BLOCK BRACKET AND COOLANT LINES FROM ENGINE TO TRUCK. REMOVED FUEL LINES TO ENGINE AND WIRING TO ENGINE AND TRUCK. REMOVED AIR LINES TO ENGINE AND DISCONNECTED P/S PUMP. REMOVED DRIVELINE AND WIRING, BRACKETS AND AIR LINES TO TRANS. REMOVED BRACKETS ON TOP OF TRANS AND SHIFT TOWER. REMOVED SLAVE CYLINDER AND PTO PUMP. REMOVED EXHAUST FROM ENGINE TO ONE BOX. REMOVED CROSSMEMBER UNDER ENGINE, OIL PAN AND OIL PUMP. REMOVED MOTOR MOUNT BOLTS AND REMOVED ENGINE AND TRANS FROM TRUCK. CLEANED UP TOOLS AND BAY. REMOVED TRANSMISSION AND CLUTCH AND FOUND CLUTCH SPRINGS BROKE AND INPUT SHAFT WORN. REMOVED ENGINE AND CHASSIS HARNESS. REMOVED RADIATOR, COOLANT MOD, FUEL MOD AND AIR COMP. REMOVED TURBO, EGR ACTUATOR AND COOLANT COLLECTOR. REMOVED FAN, FAN HUB AND STARTER. FINISHED DISASSEMBLING ENGINE AND CLEANED UP. GOT NEW ENGINE AND INSTALLED ALTERNATOR AND A/C COMPRESSOR BRACKET. INSTALLED ALTERNATOR, A/C COMPRESSOR, FAN HUB AND BELT TENSIONER. REMOVED ROCKER SHAFTS AND ARMS FROM OLD ENGINE AND STARTED TO CLEAN THEM. FINISHED CLEANING ROCKER ARMS AND ROCKER SHAFTS. ASSEMBLED ROCKER ARMS ON ROCKER SHAFTS AND INSTALLED AND TORQUED ROCKER SHAFTS IN NEW ENGINE. ADJUSTED ALL VALVES AND JAKES. INSTALLED NEW JAKE SOLENOIDS AND INJECTOR HARNESSES. INSTALLED AND TORQUED VALVE COVER, COOLANT COLLECTOR AND COOLANT OUTLET ELBOW. INSTALLED EGR ACTUATOR AND TURBO OIL SUPPLY LINE. CLEANED, INSTALLED AND TORQUED EXHAUST MANIFOLD. REMOVED EXHAUST PIPE OFF OF OLD TURBO AND INSTALLED ON NEW ONE WITH NEW GASKET, STUDS AND NUTS. INSTALLED TURBO WITH NEW BOLTS. INSTALLED EGR ACTUATOR ARM AND TURBO OIL SUPPLY AND DRAIN LINES. INSTALLED NEW OIL SPINNER AND TORQUED. INSTALLED COOLANT AND FUEL LINES TO DOSER. REMOVED COOLANT MOD AND CLEANED, INSTALLED AND TORQUED INTAKE MANIFOLD. INSTALLED AND TORQUED COOLANT MOD. INSTALLED AND TORQUED NEW AIR COMP. INSTALLED FITTINGS IN AIR COMP AND CLEANED HPFP. INSTALLED AND TORQUED HPFP WITH NEW SEAL. INSTALLED 12C2 KIT AND PLV, NEEDLE AND AMPLIFIER RETURN LINES. INSTALLED AND TORQUED FUEL MOD AND ECM. INSTALLED ENGINE HARNESS AND PILOT BEARING. REMOVED CLUTCH FORK AND INPUT SHAFT BEARING COVER. REMOVED INPUT SHAFT BEARING AND INPUT SHAFT. CLEANED COVER SEALING SURFACES. INSTALLED NEW INPUT SHAFT WITH NEW BEARING AND SNAP RINGS. INSTALLED COVER WITH NEW GASKET. INSTALLED CLUTCH FORK AND SET TRANS ON JACK. INSTALLED TRANS ONTO ENGINE AND INSTALLED BELLHOUSING BOLTS. INSTALLED AND TIED UP CHASSIS HARNESS. INSTALLED STARTER AND DEF TANK COOLANT LINES. INSTALLED FUEL LINES FROM FUEL MOD TO HPFP. INSTALLED RADIATOR AND CONNECTED ALL COOLANT LINES. DRAINED TRANSMISSION AND REMOVED PTO. FOUND STUD FOR PTO STRIPPED, ORDERED NEW STUD. INSTALLED PTO AND STABBED ENGINE INTO TRUCK. INSTALLED MOTOR MOUNT BOLTS. INSTALLED AIR LINES, WIRING, BRACKETS AND FUEL LINES TO TOP OF TRANS. INSTALLED PTO PUMP AND WIRING. INSTALLED SLAVE CYLINDER AND TIED UP LINE. INSTALLED WIRING ON FIREWALL AND TIED UP. GOT PULLED OFF TRUCK TO WORK ON ANOTHER. CLEANED UP TOOLS AND MOPPED BAY. INSTALLED OIL PUMP AND SUCTION MANIFOLD. INSTALLED P/S PUMP AND FRONT CROSSMEMBER. INSTALLED OIL PAN AND DIPSTICK TUBE. PRIMED OIL SYSTEM AND FILLED COOLING SYSTEM. INSTALLED CROSSMEMBER UNDER REAR OF ENGINE AND FILLED TRANSMISSION WITH OIL. INSTALLED DRIVELINE AND EXHAUST PIPE FROM TURBO TO ONE BOX. INSTALLED INNER FENDERS. INSTALLED AIR CLEANER HOUSING, WIPER ARM ASSEMBLY AND RAIN TRAY. PROGRAMMED INJECTOR TRIMS. GREASED CLUTCH AND PRIMED FUEL SYSTEM. STARTED TRUCK FOUND COOLANT LEAKS FROM 2 COOLANT HOSES FOR CAB HEATER. INSTALLED NEW CLAMPS ON HOSES AND LEAK WENT AWAY. HEARD CHATTER FROM TRANSMISSION. REMOVED ACCESS COVER TO CLUTCH BUT DIDN'T SEE ANYTHING WRONG. CLEANED UP TOOLS AND BAY.

Qty	Item	Description	Price Each	Extended
	DD13-GEN	SHOP - DDC DD13 LABOR		
1	DDE R23539389	3/4 ENG DD13 ENGINE		
6	DDE A4720980080	SEAL		
1	DDE 23516100	GASKET		
1	DDE A0179978945	O-RING		
1	DDE A4722030315	PIPE PAC/3		
1	DDE A4721400548	CONN PIPE		



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1	DDE A4722000154	CONN PIPE
1	DDE A4710780280	GASKET
1	DDE A0029974271	FITTING
2	DDE A0019950502	PIPE CLAMP
1	DDE A4721420880	SEAL
1	DDE A4712000152	CLNT LINE
1	DDE A4712002152	CLNT LINE
1	DDE A4711506333	HARNESS
1	DDE A4711508233	HARNESS
1	DDE A4711508333	HARNESS
1	DDE A0000701632	HPF LINE KIT
1	DDE A4711420180	SEAL (METAL)
1	DDE A4711420280	SEAL (METAL)
1	DDE A4712030680	SEAL
1	DDE A4712030780	SEAL
1	DDE A4710960380	METAL SEAL
4	DDE A0219901101	HEX HD BOLT PAC/8
1	DDE A5411870080	GASKET
1	DDE A0189973145	O-RING
1	DDE A4722005052	COOLANT LINE
2	DDE A4721530759	VALVE
1	IAT 209701 82	CLUTCH, 15-1/2" X 2" SA, 3600/1
1	Q2-14069-000	SPACER-PILOT BEARING, LOW CARB
1	TCX AMS013	GASKET-5 INCH SPHERICAL W/TABS
1	TCX AMS012	GASKET-4 INCH SPHERICAL W/TABS
4	DDE H000000001068	SEAL RING
10	DDE H000000001069	SEAL RING (20mm O.D. x 14mm I
1	DDE A4721420880	SEAL
1	DDE A4720180780	SEAL PAC/5
1	DDE A0049971371	FITTING
1	TCX T130158342AB2	CLAMP-EXHAUST 5 INCH SPHERICAL
1	TCX T130130349AB2	CLAMP, 4 INCH SPHERICAL
1	IAT K4124	CLUTCH INSTALLATION KIT
1	DDE A4712031180	SEAL
1	DDE A4720106662	OIL SEP
1	DDE RA4711302515	A/COMPRESSOR
1	DDE EA4710967899	EXH GAS TRBO
1	23-13758-410	45 DEG ELBOW - AIR COMP GOV
1	DDE A4711420680	GASKET
6	DDE A0009903150	TURBO NUT
6	DDE A0019904605	STUD
2	DDE A0029974271	FITTING
1	DDE A0029905054	HEX NUT
4	DDE H000000001067	SEAL RING
2	DDE H000000001071	SEAL RING

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1	DDE A4710780380	GASKET
1	35P41	PTO ADAPT GASKT .030 - 6 BOLT
1	13T38541	PTO COVER GASKET- 6 BOLT
1	20MK6700	STUD KIT
12	MBL 23512740	BULK 1300S 15W40 (PER GAL)
16	SHC50P-013	50WT SYN BY POUND(122207)35LB
2	72332	HOSE CLAMP #12
1	OWI 23519398	EPWRCLPLSDRUM/BULK ANTIFRZ EXT
1	MEI 310-1704	5405 DENSO COMPRESSOR/FRTL
2	MEI 790-1345	MINI-STAT SEAL / BOX OF 10
-1	CA4710967899-CORE	CORE DEP: EXH GAS TRBO
-1	CA4711302515-CORE	CORE DEP: A/COMPRESSOR
-1	C23539389-CORE	CORE DEP: 3/4 ENG DD13 ENGINE
	C23539389-CORE	CORE DEP: 3/4 ENG DD13 ENGINE
1	C23539389-CORE	CORE DEP: 3/4 ENG DD13 ENGINE
1	CA4711302515-CORE	CORE DEP: A/COMPRESSOR
1	CA4710967899-CORE	CORE DEP: EXH GAS TRBO
1	S-WP3	UPGRADE TO 3 YEAR / 300/000 MILE LIMITIED WARRANTY
	COM-1	REMAN ENG SER # 471903R1103935

Job#3 SHP-DD13

SHOP - DDC DD13 LABOR

J-CUST

Condition CONTINUATION OF STORY FROM LINE 1.

Cause

Correction ROAD TESTED TRUCK TO BREAK IN CLUTCH. INSTALLED CLUTCH ACCESS COVER AND BATTERY COVER AND STEP. INSTALLED HOOD, WIRING, BUMPER AND BUMPER GUARD. CHARGED A/C STEAMED TRUCK OFF AND LET RUN OUTSIDE TO GET UP TO OPERATING TEMP. CLEANED BAY AND TOOLS. CHECKED TRUCK OVER, NO LEAKS FOUND. WHEN PULLING TRUCK OUT FOUND A/C INOP. NEED TO TROUBLESHOOT. RAN TRUCK WITH A/C ON AND FOUND COMPRESSOR CLUTCH NOT ENGAGING. DISCONNECTED PLUG TO COMPRESSOR AND IT HAD GOOD GROUND AND BATTERY VOLTAGE. RAN POWER TO A/C COMPRESSOR CLUTCH AND IT STILL WOULD NOT ENGAGE. ORDERED COMPRESSOR AND EVACUATED A/C SYSTEM. REMOVED BELT AND COMPRESSOR. INSTALLED NEW COMPRESSOR, INSTALLED BELT AND PLUGGED IN CONNECTOR. CHARGED A/C AND RAN TRUCK. CLUTCH IS NOW ENGAGING AND A/C IS OPERATIONAL. PARKED TRUCK OUTSIDE.

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## Diagnostic/Tech Services:

Labor:  
Misc. Charges:  
Parts:  
Sublet:  
Shop Supplies (ESC)  
Taxes:

Total: 34,887.85

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 Name	Acct Num	Invoice Number	Amt Due	Date Due	Remittance Enclosed
		R013075832	34,887.85	06/04/2019	

Customer Signature:

Date: \_\_\_\_\_