

ACCOUNT NUMBER:
 INVOICE NUMBER: R013065346
 INVOICE DATE:
 INVOICE TERMS: NET30
 PURCHASE ORDER#: NEED
 VEHICLE#: 370588

Cust. Unit #: 6217	Make: FREIGHTLINER	Model: CA125SLP	Tag #: TR
VIN: 1FUJGLDV9CSBR3065	Model #: PX125064ST	In Serv Date: 12/13/2011	Year: 2012
Engine S/N: 471903S0102708	Model #: D471903	In Serv Date: 12-13-11	Mileage: 651,734
Tran S/N: K0880594	Model #: FO-16E310CLA	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: 02/08/2018
		BOM/Spec:	

Sold Operations

JOB#1 SHP-0013

SHOP - DDC DD13 LAROR

S-CUST

Condition

NO OIL PRESSURE, NO OIL ON DIPSTICK, LOSING COOLANT, CHECK AND ADVISE

VEHICLE TOWED IN, CHECK CONDITION OF DRIVELINE

Cause

6217

Mileage 843,323

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Sold Operations (Cont.)

COLLECTOR

CHECK, PRINT & CLEAR CODES. REMOVE OIL PAN DRAIN PLUG. NO OIL CAME OUT. SLUDGE WON'T EVEN DRAIN OUT, NO OIL ON THE DIPSTICK. REMOVE OIL PAN, SUCTION BRIDGE, OIL PUMP TUBES & OIL PUMP. REMOVE #2, 3 & 4 MAIN CAPS. TO CHECK CRANK. REMOVE GRILL GUARD & FRONT BUMPER. DRAIN COOLANT. REMOVE #2 ROD CAP. CLEAN CRANK JOURNALS. FOUND #2 MAIN JOURNAL & BEARING DAMAGED. #3 & 4 MAIN JOURNALS ARE SCRATCHED ALSO BUT NOT AS BAD AS #3. ALSO FOUND COOLANT DRIPPING FROM #2 LINER. DISCONNECTING & REMOVING COMPONENTS TO REMOVE ENGINE & TRANNY FROM THE CHASSIS. CONTINUE DISCONNECTING FUEL LINES, ELECTRICAL & AIR LINES. DISCONNECT TOP OF TRANNY & COOLANT HOSES TO THE DEF TANK. REMOVED POWER STEERING PUMP. DISCONNECTED ELECTRICAL ON FIREWALL. REMOVED AIR LINE TO V-POD. REMOVED ALL COOLANT CAB LINES AND INTAKE PIPE. RECOVERED A/C. REMOVED A/C LINE. REMOVED FRONT CROSS MEMBER BRACKET AND TOW HOOKS. REMOVED FRONT AND REAR ENGINE MOUNT BOLTS. CONNECTED SPREADER BAR. HOISTED ENGINE FROM CHASSIS AND SET DOWN ON JACKS. REMOVED TRANS COOLER LINES. REMOVED LOWER AND UPPER RADIATOR HOSES. REMOVED CAC PIPES. REMOVED A/C LINES. REMOVED RADIATOR SUPPORT ROPE. REMOVED AND HOISTED RADIATOR ASSEMBLY FROM ENGINE. REMOVED FRONT RADIATOR MOUNT BRACKET. REMOVED FAN. DISCONNECTED ELECTRICAL ON ITV PIPING. REMOVED ITV PIPE. REMOVED DEF TANK COOLANT LINES. UNBOLTED CYLINDER ON TRANS. REMOVED ALL BELL HOUSING BOLTS. REMOVED TRANS FROM ENGINE. DISCONNECTED ELECTRICAL ON CAM FRAME. REMOVED VALVE COVER. REMOVED INJECTOR HARNESSSES. REMOVED ALL INJECTOR FUEL LINES AND HIGH PRESSURE FUEL LINES AND BRACKET. BACKED OFF ALL ADJUSTING SCREWS ON ROCKERS. REMOVED ALL CAM CAP BOLTS. HOISTED CAM FRAME AND SET ON CART. STEAMED CAM FRAME ASSEMBLY OFF. REMOVED COOLANT CROSSOVER PIPE. REMOVED COOLANT LINE TO COOLANT MOD. REMOVED STEEL COOLANT LINES TO COLLECTOR. REMOVED TURBO HEAT SHIELDS. REMOVED COOLANT LINE FROM ACTUATOR. REMOVED ACTUATOR ROD. REMOVED FUEL LINES TO HEAD. REMOVED DOSER FUEL LINES. REMOVED AIR LINE TO WASTEGATE. REMOVED TURBO FROM EXHAUST. REMOVED HEAD BOLTS. INSTALLED LIFTING DEVICE. REMOVED HEAD FROM ENGINE. STEAMED HEAD OFF. REMOVED BOTH BELTS. REMOVED FAN HUB. REMOVED BELT TENSIONER. REMOVED VIBRATION DAMPENER. REMOVED A/C COMPRESSOR. REMOVED ALTERNATOR. REMOVED ALTERNATOR AND A/C BRACKET. REMOVED CRANK CASE BREATHER AND TUBE. DISCONNECTED AND REMOVED CHASSIS AND ENGINE ELECTRICAL. REMOVED STARTER. REMOVED V-POD. REMOVED REST OF EXHAUST SIDE. TAPPED HOLES FOR ENGINE STAND. HOISTED ENGINE IN AIR. INSTALLED ENGINE TO ENGINE STAND. REMOVED FLYWHEEL. REMOVED FLYWHEEL HOUSING. REMOVED GEAR TRAIN GEARS. REMOVED FRONT COVER. REMOVED ALL ROD CAPS AND PULL KITS OUT. ROTATED ENGINE OVER. REMOVED ALL MAIN CAPS. REMOVED CRANKSHAFT FROM ENGINE. REMOVED ALL BEARINGS AND OIL SPRAY NOZZLES. REMOVED ALL LINERS. ROLLED ENGINE TO STEAM BAY. STEAM CLEANED ENTIRE BLOCK. CLEANED OIL PAN, VALVE COVER, AND FLYWHEEL HOUSING. CLEANED ALL MAIN CAPS AND GEARS. HOISTED NEW CRANKSHAFT FROM CRATE. STEAM CLEANED CRANK. INSERTED MAIN BEARINGS WITH CLEAN OIL. WIPED CRANKSHAFT DOWN. HOISTED AND SET CRANK INTO ENGINE. INSERTED MAIN BEARINGS INTO CAPS WITH CLEAN ENGINE OIL. INSTALLED ALL MAIN CAPS. ALL THRUST BEARINGS ARE IN AS WELL. CLEANED MAIN BOLTS AND MEASURED THEM. IN SPEC. INSTALLED ALL MAIN CAP BOLTS. TORQUED MAINS TO SPEC. USED DIAL INDICATOR TO CHECK CRANKSHAFT ENDPLAY. IT WAS IN SPEC. ROTATED ENGINE OVER. CLEANED CYLINDERS IN BLOCK. REMOVED NEW LINERS FROM BOXES. CLEANED LINERS. INSTALLED O-RINGS. LUBRICATED O-RINGS. INSTALLED ALL LINERS. CHECKED LINER HEIGHTS. ALL IN SPEC. REMOVED NEW RODS FROM BOXES. CLEANED THEM UP. REMOVED NEW PISTONS FROM BOXES.

Qty	Item	Description	Price Each	Extended
	DD13-GEN	SHOP - DDC DD13 LABOR		
6	DDE A4710300860	C/ROD BRG KT		
7	DDE A4710300140	MAIN BRG KIT		
1	DDE A4710300545	FITTD BRG KT		
1	DDE EA4710310601	CRANKSHAFT		
1	DDE A4710140022	SEAL		
1	DDE A0000701632	HPF LINE KIT		
1	DDE A0169970646	SEAL RING		
1	DDE A0159974946	SEAL		
6	DDE A4710303217	PISTON KIT		

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6	DDE A4710113110	LINER KIT
1	DDE A4710150180	SEAL
1	DDE A4710160720	HD GASKET
1	DDE A4720110280	FRONT COVER
1	DDE A4731800109	OIL FLTR KIT
1	DDE A4710960380	METAL SEAL
4	DDE N000000001069	SEAL RING (20mm O.D. x 14mm I
6	DDE A4720780180	INJ SEAL
1	DDE A4710160480	SEAL
1	DDE A5411870080	GASKET
1	DDE A0189973145	O-RING
1	DDE A4720180780	SEAL
6	DDE A0179978645	O-RING
2	DDE A4721870980	SEAL
2	DDE A4721870880	SEAL
1	DDE A4721881480	OIL SUCTION MANIFOLD SEAL/GASK
12	DDE A4710380071	C/RD BOLT
1	DDE EA4711803101	O/PUMP
12	DDE A0029905500	BIHEX BOLT
1	DDE A4721806851	O/SUCTN MFLD
6	DDE A4710300020	CONH ROD
1	DDE A0239977145	O-RING
1	DDE A0021311280	O-RING 16MM
1	DDE 23516100	GASKET
1	DDE A4722000052	COOLANT LINE
1	DDE A4712000152	CLNT LINE
1	DDE A4711508233	HARNESS
1	DDE A4711508333	HARNESS
1	90794	A/B ML CONN
1	DDE A4721841980	SEAL
1	DDE A4721860095	SUPPORT
1	DDE A4712002152	CLNT LINE
1	DDE A4722030080	SEAL
1	MEI 790-1331	5/8in THIN WASHERS/Box 10
1	DDE A4709971245	SEALING RING-USE TCX AMS013
1	TCX AMS012	GASKET-4 INCH SPHERICAL W/TABS
1	23-13758-410	45 DEG ELBOW - AIR COMP GOV
12	MBL 23512740	BULK 1300S 15W40 (PER GAL)
3	OWI 23519398	EPWRCLPLSDRUM/BULK ANTIFRZ EXT
1	DDE A4722001315	THERMOSTAT/ A4722000215 OLD#
-1	CA4710310601-CORE	CORE DEP: CRANKSHAFT
-1	CA4711803101-CORE	CORE DEP: O/PUMP
-6	CA4710300020-CORE	CORE DEPOSIT
-1	DDE A4722001315-CORE	THERMOSTAT/ A4722000215 OLD# C
1	CA4710310601-CORE	CORE DEP: CRANKSHAFT

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Sold Operations (Cont.)

1 CA4711803101-CORE CORE DEP: O/PUMP
 6 CA4710300020-CORE CORE DEPOSIT
 1 DDE A4722001315-CORE THERMOSTAT/ A4722000215 OLD# C

Job#2 CI COURTESY TRUCK INSPECTION S-CUST

Condition COURTESY TRUCK INSPECTION

Cause

Correction

Qty	Item	Description	Price Each	Extended
	!Canda-CI	COURTESY INSPECTION		

Diagnostic/Tech Services:

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

Total Due: 15,294.55

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
		R013065346	15,294.55	02/08/2018	

☐ Check is enclosed.
 Make all checks or money orders payable to:
 Interstate Power Systems, Inc.

☐ Charge my credit card.
 Indicate your credit card preference, provide
 the account information, and sign below.

VISA ☐ MasterCard ☐ Discover ☐

Credit Card Number

Exp. Date

Credit Card Holder's Signature

INVOICE#1481

DATE:11-10-18

UNIT #6217

YEAR:2012

MAKE:FREIGHTLINER

MODEL:CASCADIA

VIN#BR3065

MILES:722,952

PO#

TERMS:Due by 12-10-18

Description	Quantity	Unit Price	Cost
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Picked up truck with check engine light on,
troubleshoot engine codes and repair, tune-up
engine, delivered truck back

DD13 diagnostics and repair

Tune-up with new valve cover gasket

Idle speed balance Relative compression test

1	0	90
2	-4	97
3	0	100
4	0	89
5	0	90.5
6	2	90

subtotal

tax

shop supplies

labor

Total \$ 3,950.00

Thank you for your business.

Customer signature x _____