Invoice Date	04-09-18

PSO/WO NUMBER	PC	LC	MC	SHIP VIA	DOC DATE	INV. SEQ. NUMBER	SALESMAN	TERMS	STORE
SP78791	10	10	10		03-21-18	5451134	890	4	11

MAKE	MODEL	SERIAL NUMBER	EQUIPMENT NUMBER	METER READING	MACH. I.D. NUMBER	DIV.
AA	C-15	06NZ01498	3	1463644.0		T

QUANTITY	sdEM	N/R*	DESCRIPTION	UNIT PRICE	EXTENSION

OVERHAUL ENGINE

COMPLAINT: COMPRESSION IN COOLANT
CAUSE: HEAD GASKET FAILURE
CORRECTION: ENGINE FAIL BOTTLE TEST BADLY. GOT OK FROM CUSTOMER TO PULL HEAD. REMOVED ALL TOP END PARTS AND CYLINDER HEAD. HEAD GASKET HAS FAILED ON #4, 5, AND 6. LINER #5 HAS EROSION ON THE FLANGE, PITTING ON THE SPACER PLATE, AND THE HEAD HAS FLYCUT CRACKS. CUSTOMER HAS BEEN QUOTED OVERHAUL OPTIONS. AFTER REMOVAL, MOUNTED ENGINE TO STAND, REMOVED ALL EXTERNAL PARTS. TAPPED HEAD BOLT HOLES, CLEANED ALL BLOCK SURFACES. WASHED BLOCK AND APPLIED EPOXY TO LOWER BORES. GROUND EPOXY, LOWER BORES ARE READY. CLEANED AND INSTALLED CRANKSHAFT AND MAIN BEARINGS, PREPPED AND INSTALLED LINER KITS WITH SHIMS. PUT PISTON PACK CORES BACK IN BOXES AND BACK IN THE SHIPPING CRATE. PUT INJECTOR CORES IN BOXES AND IN THE CRATE. REMOVED THE NEW CYLINDER HEAD FROM ITS BOX AND WASHED AND DRIED IT. PREPPED BLOCK FOR INSTALLING THE CYLINDER HEAD. APPLIED THE SEALANT TO THE SHIM GASKET UNDER THE SPACER PLATE. INSTALLED THE SPACER PLATE AND HEAD GASKET. INSTALLED ALL WATER GROMMETS AND REAR DRAIN SEAL. BOTH O-RINGS ARE INSTALLED FOR THE OIL SUPPLY DOWEL. SET THE CYLINDER HEAD AND TORQUED. BEAD BLASTED THE EXHAUST MANIFOLD AND INSTALLED IT AND

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QUANTITY	sdEM	N/R*	DESCRIPTION	UNIT PRICE	EXTENSION

TORQUED WITH NEW STUDS. INSTALLED PLUGS IN THE NEW CYLINDER HEAD AND PRIMERED THE HEAD. ALL FASTENERS TORQUED TO SPEC. INSTALLED PISTON COOLERS. PREPPED AND INSTALLED REAR STRUCTURE, REAR SEAL, FLYWHEEL AND NEW PILOT BEARING. INSTALLED CUSTOMER SUPPLIED CAMSHAFT, ALL FRONT STRUCTURE. INSTALLED EXTERIOR PARTS, WATER PUMP. INSTALLED THERMOSTATS. REMOVED ENGINE FROM STAND. RESEALED AND INSTALLED OIL FILTER BASE, COOLANT PLUMBING, OIL COOLER. INSTALLED NEW OIL PUMP, PUT ON TUBES AND PLATE. OIL PAN INSTALLED. INSTALLED FAN AND FRONT ACCESSORIES, ALL WIRING AND HARNESS, P/S SYSTEM, HOSES, ENGINE ACCESSORIES, RADIATOR AND HOSES. TORQUED AND SET THE OVERHEAD. PAINTED AND INSTALLED NEW SEALS ON THE VALVE COVERS AND INSTALLED. WENT TO INLAND AND RETRIEVED A TRANSMISSION OIL COOLER. PUT OIL, COOLANT, AND TRANS OIL IN. FINISHED UP ASSEMBLY, STARTED AND RAN UP TO TEMP. PUT IN INJECTOR TRIM FILES. CHECKED FOR LEAKS, NONE FOUND. RUNS WELL. ROAD TESTED.

3	0L-1351	CAP SCREW	S	
1	0R-8340	COMPRESOR GP	S	
1		CORE CHARGE	S	
1-		FULL CORE	S	
1	0R-9056	CORE AS.OIL	S	
1		CORE CHARGE	S	
1-		FULL CORE	S	

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AA	C-15	06NZ01498	3	1463644.0		T

QUANTITY	sdEM	N/R*	DESCRIPTION		UNIT PRICE	EXTENSION
5	0S-1594		CAP SCREW	S		
2	0T-0573		CAP SCREW	S		
1	1P-3036		TAP	S		
4	1U-7427		COVER ENGINE	S		
5	2J-3118		BOLT	S		
24	3E-6772		SEAL	S		
1	4J-5267		SEAL-O-RING	S		
1	6D-1004		GASKET	S		
1	6I-4421		PLATE SPACER	S		
30	6K-0806		TIE	S		
1	7E-6508		CAP A	S		
2	8J-4351		SEAL-O-RING	S		
1	8L-6557		ADAPTER	S		
1	8M-0505		CONNECTOR	S		
1	8M-7065		GASKET	S		
7	8S-9191		BOLT	S		
2	9L-8925		BOLT	S		
38	9X-2364		IN HOSE STK	S		
1	001-6285		COUPLING	S		
1	068-0599		FITTING	S		
1	10R-9347		ENGINE KIT	S		
1			CORE CHARGE	S		
1-			FULL CORE	S		
2	100-7399		PLUG	S		
1	114-4427		SEAL-O-RING	S		
1	118-5068		SEAL O RING	S		
10	124-1854		BOLT 12PT	S		
16	124-1855		BOLT 12PT	S		
1	128-0331		HOSE	S		

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AA	C-15	06NZ01498	3	1463644.0		T

QUANTITY	sdEM	N/R*	DESCRIPTION	UNIT PRICE	EXTENSION
1	130-4698	S	SLEEVE		
3	165-6170	S	PLUG		
1	172-3450	S	TUBE AS		
2	172-4702	S	CLAMP		
1	189-1814	S	GASKET KIT		
1	205-8206	S	HOSE AS.		
1	234-1877	S	KIT-GASKET-R		
1	234-1904	N	KIT-GASKET-F		
12	238-8648	S	CAT ELC		
4	250-0466	S	SEAL-O-RING		
1	256-8753	S	FILTER AS SE		
9	257-2122	S	BOLT-HEX HEA		
3	458-9582	S	PAINT-PRIMER		
1	458-9583	S	PAINT-HI-TEMP		
1	458-9585	S	PAINT-BLACK		
8	458-9587	S	PAINT-YELLOW		
10	300-7913	S	CAT DEO ULS 15W-40		
1	1174633	S	NONFLAMMABLE ELECT		
1	51221	S	PEN OIL 16OZ EN		
3	MER2QT	S	DEXTRON ATF 1 QT		
3	9010	S	BRAKE CLEANER AERO		
24	144110	S	OIL-SYN 50 WEIGHT		
			TOTAL PARTS SEG. 01		
			F/R LBR		
1.00			INBOUND FREIGHT		
			TOTAL MISC CHGS SEG. 01		

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AA	C-15	06NZ01498	3	1463644.0		T

QUANTITY	sdEM	N/R*	DESCRIPTION	UNIT PRICE	EXTENSION

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                    SEGMENT 01 TOTAL                            21827.12 T

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 COUNTERBORE CYLINDER BLOCK

  COMPLAINT: COUNTER BORE BLOCK FOR LINER SHIMS
  CAUSE: OVERHAUL
  CORRECTION: PREPPED BLOCK AND CUT DECK FOR .030
  SHIMS. WASHED WHEN DONE. MEASURED PROTRUSION, AVG
  OF .0055
  COMPLICATIONS:
     2  1U-5517                DISC              S
     6  6I-4361                INSERT SEAT       S
     1  9010                   BRAKE CLEANER AEROS

                   TOTAL PARTS          SEG. 02

                                          F/R LBR
                    SEGMENT 02 TOTAL                             1084.70 T
  ------------------------------------------------------------------------

 REMOVE & INSTALL ENGINE

  COMPLAINT: R&I ENGINE
  CAUSE: OVERHAUL
  CORRECTION: REMOVED RADIATOR AND ENGINE FROM
```

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QUANTITY	sdEM	N/R*	DESCRIPTION	UNIT PRICE	EXTENSION
			CHASSIS, ALSO REMOVED TRANSMISSION FOR REPLACEMENT. STRIPPED TRANS CORE OF REUSE PARTS. CLEANED YOKE AND CLUTCH HOUSING. INSTALLED ALL PARTS TO NEW TRANS. PUT ON JACK AND LEFT UNDER TRUCK. INSTALLED THE ENGINE MOUNTS INTO THE BRACKETS AND SET THE ENGINE BACK INTO THE CHASSIS AND BOLTED DOWN. BOLTED THE TRANSMISSION BACK UP TO THE ENGINE. STARTED BOLTING THE CLUTCH UP AND THE BOLTS WERE NOT GOING IN EASILY. I TAPPED ALL BOLT HOLES FOR THE CLUTCH MOUNTING BOLTS AND THEN INSTALLED AND TORQUED THE BOLTS. INSTALLED THE CLUTCH LINKAGE AND REAR TRANSMISSION SUPPORT. I LOOSENED THE CARRIER BEARING SO THAT I COULD GET THE DRIVELINE MOUNTED BACK TO THE YOKE. FOUND TWO OF THE CAP BOLTS HAD DAMAGED THREADS. TAPPED THE MOUNTING HOLES TO CLEAN THE THREADS FOR THE U-JOINT STRAPS. INSTALLED A NEW STRAP SET AND TORQUED. STARTED CONNECTING WIRING ON THE DRIVER SIDE, FOUND DAMAGED HARNESS THAT CONNECTS TO THE ECM. REPAIRED THE WIRES THAT WERE WORN THROUGH AND COVERED BACK UP AND CONNECTED THE HARNESS. CONNECTED COOLANT LINES ON THE PASSENGER SIDE AND BLOCK HEATER WIRING. READY TO CONTINUE ASSEMBLY. INSTALLED SHIFTER AND AIR LINES TO THE TRANSMISSION. INSTALLED THE FLOOR PLATE. REPLACED FUEL FILTERS AND INSTALLED OIL FILTER. INSTALLED TURBO AND OIL LINES AND INTAKE PIPING AND ATAAC PIPING.		

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QUANTITY	sdEM	N/R*	DESCRIPTION		UNIT	EXTENSION
1	CR105C137		FORK CLUTCH	N		
8	HWC07936		WASHER	N		
4	IMP16249		HX CP PL	N		
2	IMP16272		HX CP PL US	N		
4	IMP42318		LOCKNUT	N		
2	IMP42319		NYLON LOCKNUT	N		
4	MR1001		MOUNT	S		
2	05-09057		WASHER	N		
2	05-09121		WASHER	N		
4	05-18713		WASHER	N		
2	16401-04		ENGIN MOUNT	N		

TOTAL PARTS SEG. 03

F/R LBR 3976.27 T

SEGMENT 03 TOTAL

DNU ADDITIONAL SERVICES DNU ADDITIONAL PARTS

COMPLAINT: INSTALL TRANSMISSION COOLER AND LINES.
CAUSE: NO FAILURE.
RESULTANT DAMAGE: NO DAMAGE.
CORRECTION: CONVERTED TRANSMISSION TO AN AIR COOLED TRANSMISSION COOLER. INSTALLED COOLER ON BRACKET AND MODIFIED THE PROTECTIVE SCREEN TO FIT PROPERLY. BUILT HOSES AND INSTALLED THE FITTINGS ON THE TRANSMISSION. ROUTED THE NEW HOSES AND

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SECURED THEM. CONNECTED THE COOLER TO THE
TRANSMISSION. REPLACED REMOTE GREASE ZERKS. HAD
TO REMOVE EACH HOLDER FROM THE FRAME TO REMOVE AND
REPLACE THE ZERK.

QUANTITY	sdEM	N/R*	DESCRIPTION	UNIT PRICE	EXTENSION
1	RTLO18918B-4444		TRANSMISSION LOW IN		
1			CORE CHARGE N		
1-			FULL CORE N		
1	TT306FF-866		PILOT BEARING S		
7	0T-0055		CAPSCREW S		
4	1D-4540		CAPSCREW S		
168	9X-2375		IN HOSE STK S		
4	061-6746		FITTING S		
1	421-9977		CLUTCH N		
1	CB127760		CLUTCH BRAKE N		
2	290-S49-10		ELBO N		
1	860-026419		COOLER GUARD N		
1	860-124		OIL COOLER N		
			TOTAL PARTS SEG. 04		
			TOTAL LABOR SEG. 04		
1.00			FREIGHT CHARGE		
			TOTAL MISC CHGS SEG. 04		
			SEGMENT 04 TOTAL		6728.11 T

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QUANTITY	sdEM	N/R*	DESCRIPTION	UNIT PRICE	EXTENSION

COMPONENT COVERAGE COMPONENT PLUS COVERAGE

1.00-	APPLY DISCOUNT 1	
1.00-	APPLY DISCOUNT 2	
1.00	OIL COOLER	
	TOTAL MISC CHGS SEG. 05	
	SEGMENT 05 TOTAL	100.00 T

OPT. WARRANTY PURCHASE ENGINE

1.00	2017 OPT ESC	
	TOTAL MISC CHGS SEG. 07	
	SEGMENT 07 TOTAL	4130.00 T

DNU APPLY DNU DISCOUNT

1.00-	2018 OHT OPT	

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AA	C-15	06NZ01498	3	1463644.0		T

QUANTITY	sdEM	N/R*	DESCRIPTION	UNIT PRICE	

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                              TOTAL MISC CHGS      SEG. 08

                               SEGMENT 08 TOTAL                          1970.00-T
    -----------------------------------------------------------------------------

DNU DIAGNOSE & REPAIR AIR CONDITIONER

  COMPLAINT: AC INOP
  CAUSE: LEAKS, POSSIBLE OTHER
  CORRECTION: AC IS INOP. NO FREON IN SYSTEM.
  PRESSURE CHECKED FOR LEAKS. FOUND A LARGE LEAK AT
  THE BOTTOM OF THE DRIER. REMOVED LINE AND REPLACED
  ORING, STILL LEAKS. LINE HAS BEEN RAN LOOSE AT THE
  DRIER, AND THE SEAL SURFACE IS DAMAGED ON BOTH
  PARTS. PETERBILT IS OUT OF STOCK FOR THE HOSE
  UNTIL NEXT WEEK. REPLACED THE DRIER , STILL LEAKS.
  MUST REPLACE THE HOSE TO SEAL THE SYSTEM, REMOVED
  AND REPLACED DAMAGED HOSE. FILLED WITH 5.5LB OF
  FREON. RAN ENGINE AND CHECKED TEMPERATURE. BLOWING
  HIGH 40S.
  COMPLICATIONS; NONE.
    6  R134A30              LB R134A FREON     S

                              TOTAL PARTS          SEG. 10

                              TOTAL LABOR          SEG. 10
```

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AA	C-15	06NZ01498	3	1463644.0		T

QUANTITY	sdEM	N/R*	DESCRIPTION	UNIT PRICE	EXTENSION
			SEGMENT 10 TOTAL		463.98 T

SUPPLY FEE [redacted]

SUBTOTALS BEFORE TAXES [redacted]

* * * C O D * * *
* * * INVOICE COPY * * *

[redacted]

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