



KENWORTH OF PENNSYLVANIA

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REMIT TO:
KENWORTH OF PENNSYLVANIA
4909 Louise Drive Suite 105
Mechanicsburg, PA 17055



How Did We Do?

Customer:
30091

.....

Ship To: .

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REPRINT CUSTOMER

INVOICE

Work Order

MS13674

Invoice Date: 05-24-24

Tax ID:

Tax ID Date:

Page 1 of 4

Year	Make / Model		VIN	License	Mileage	Unit / Stock	Authorization
2014	Peterbilt / 388		1NPWLPOX0ED214695		451436M	54	
Open Date / Time		Delivery Date	Delivery Mileage	Engine Hours	Reefer Hours	Standby Hours	P.O. Number
03-12-24 / 04:04PM		03-27-13		16677.0	0.0	0.0	
Complete	Engine Model / Serial #		Transmission Model/Serial #			Key Tag	Service Writer
05-23-24	MX-13 /		Fuller /				DN*SRO
Memo							

- PULL HEAD AND INSPECT
REMOVE ALL ACCESS ITEMS TO REMOVE HEAD, INCLUDING CLEAN AIR PIPING, WIRING HARNESSSES, EXHAUST COMPONENTS, INTAKE HORN, CAC PIPING, VALVE COVER, ROCKER HOUSING AND ASSEMBLIES. REMOVE CYLINDER HEAD AND INSPECT FOR DAMAGE. PRESSURE TEST CYLINDER HEAD. MEASURE CYLINDER LINER PROTRUSION, FOUND TO BE LOW. ENGINE BLOCK COUNTER BORES NEED CUT.

TOTAL LABOR 1,512.00
TOTAL PARTS 62.54

Qty	Part Number	Description	Unit	Extended
1	1204090105	CLEANING SOLUTION-EGR (GA	62.54	62.54

- FAN HUB ISSUE
CHECKED THE FAN HUB. UNBOLTED THE FAN BLADE FROM THE HUB AND PUSHED INTO THE SHROUD. FOUND 2 BROKEN HUB MOUNTING BOLTS, 1 LOOSE AND 1 THAT LOOKS LIKE IT WAS NEVER IN. PULLED THE HUB OUT FROM ENGINE. WAS ABLE TO USE VICE GRIPS AND PULL OUT ONE OF THE BROKEN BOLTS. OTHER ONE IS BROKEN FLUSH WITH BLOCK. CLEANED THE BOLT HEAD AND WELDED A NUT TO THE BROKEN BOLT. PULLED OUT THE BROKEN BOLT. RAN A TAP THROUGH ALL THE MOUNTING HOLES AND GOT THE CORRECT BOLT LENGTH FOR NEW ONES. PULLED OUT THE BROKEN FAN BLADE AND SET THE NEW BLADE IN THE SHROUD TO INSTALL LATER. INSTALLED THE FAN HUB WITH NEW BOLTS AND LOCTITE. TIGHTENED DOWN.

TOTAL LABOR 472.50
TOTAL PARTS 381.22

Qty	Part Number	Description	Unit	Extended
1	996813502-002	BLADE-FAN*813*CW SUCKER,9	274.14	274.14
1	D84-1002-121866	BELT-ENGI	107.08	107.08

- INFRAME QUOTE
PERFORM ENGINE OVERHAUL

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MOTOR TRUCK EQUIPMENT COMPANY – SINCE1933

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- DRAIN ENGINE OIL, REMOVE OIL PAN, OIL PICKUP TUBE, AND STIFFENER PLATE.
- REMOVE RODS AND PISTONS
- REMOVE ALL 6 CYLINDER LINERS
- CLEAN BLOCK DECK AND SET UP FOR COUNTER BORE MACHINING.
- PERFORM COUNTER BORE MACHINING TO ALL 6 CYLINDERS
- CLEAN BLOCK FROM MACHINING
- INSTALL NEW CYLINDER LINERS WITH NEW O-RINGS
- REMOVE AND REPLACE ALL MAIN BEARINGS AND TORQUE TO SPEC.
- INSTALL NEW PISTONS ON RODS
- INSTALL ROD ASSEMBLIES WITH NEW BEARING AND TORQUE TO SPEC.
- INSTALL NEW HEAD GASKET
- INSTALL NEW CYLINDER HEAD AND HEAD BOLTS, TORQUE TO SPEC.
- INSTALL FUEL INJECTORS WITH NEW BOLTS, O-RINGS, AND SEALS.
- INSTALL NEW FUEL SUPPLY LINES.
- INSTALL ROCKER ASSEMBLIES AND ADJUST OVERHEAD.
- INSTALL ROCKER HOUSING.
- INSTALL EXHUAST MANIFOLD WITH NEW GASKETS
- INSTALL TURBO, EGR COOLER, EGR VALVE AND PIPING.
- INSTALL INTAKE HORN.
- INSTALL CHARGE AIR PIPING
- INSTALL COOLANT PIPING
- INSTALL WIRING HARNESSSES
- INSTALL FUEL FILTER HOUSING AND LOW PRESSURE LINES.
- INSTALL STIFFENER PLATE
- INSTALL OIL PICKUP AND OIL PAN WITH NEW GASKET.
- INSTALL VALVE COVER- INSTALL CLEAN AIR PIPING.
- FILL ENGINE WITH NEW OIL AND REPLACE FILTERS
- FILL COOLING SYSTEM WITH NEW COOLANT.
- CHARGE BATTERIES
- RUN ENGINE AND CHECK FOR LEAKS, CHEKCS OKAY
- PERFORM ROAD TEST, CHECKS OKAY.

TOTAL LABOR 9,828.00
TOTAL PARTS 18,208.74

Qty	Part Number	Description	Unit	Extended
1	2299987PE	OVERHAUL	5,318.52	5,318.52
1	1933207PEX	EGR COOLE	2,173.63	2,173.63
6	1313120PE	BOLT-FLANGE M8X55	0.61	3.66
6	CH498745-14	BRAKE CLEANER NON-CL 48 S	5.94	35.64
2	105FBC	GREASE-MOTOR ASSY 10 OZ L	11.15	22.30
1	3164067CUM	SEALANT	28.03	28.03
1	KEE	STARTING FLUID	8.50	8.50
1	1805233PE	GASKET-EXHAUST TURBOCHARG	24.33	24.33
1	1791610PE	O-RING	26.45	26.45

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Memo	VI						

1	1791611PE	O RING	26.04	26.04
4	0322364PE	RING-COPPER 16.2X21.9X1.3	0.97	3.88
10	CH498745-14	BRAKE CLEANER NON-CL 48 S	5.94	59.40
2	1858036PE	RING-SEAL, 15X24X1.5	1.79	3.58
2	1976452PE	V-CLAMP, D=93.8	57.14	114.28
1	0507207PE	COUPLING-	4.06	4.06
1	1816191PE	PIPE-COMPRESSOR	78.23	78.23
2	1786103PE	GASKET-AIR INLET	20.11	40.22
1	1439888PE	CONNECTOR	10.82	10.82
4	1844625PE	RING-SEALING 22.0X13.0X1.	1.45	5.80
1	1781938PE	HOSE-COMPRESSOR COOLANT R	37.06	37.06
1	1904646PE	FUEL PIPE ASSEMBLY-HIGH P	247.59	247.59
1	FS19765FLG	SEPERATOR-FUEL FILTER	36.17	36.17
1	2267642PE	BANJO BOL	4.22	4.22
1	1912684PE	VALVE-NON	81.32	81.32
1	1827519PE	GASKET-EXHAUST FLEX TURBO	36.69	36.69
12	EC3501	COOLANT-TRP ELC 50/50 JUG	9.22	110.64
1	M1N15	FUSE-15 AMP	1.66	1.66
1	M1N10	FUSE-10 AMP(5EA=1BOX)	1.66	1.66
3	1787297PE	CLIP-PIPE/HOSE	33.87	101.61
10	CH498745-14	BRAKE CLEANER NON-CL 48 S	5.94	59.40
3	CH498745-14	BRAKE CLEANER NON-CL 48 S	5.94	17.82
1	2866337CUM	GASKET, AFM DEVICE	16.20	16.20
1	90-0013	CLAMP-V BAND 5"	14.95	14.95
1	2880215CUM	GASKET, AFM DEVICE	21.03	21.03
1	2880213CUM	CLAMP,V BAND	66.56	66.56
4	1904646PE	FUEL PIPE ASSEMBLY-HIGH P	247.59	990.36
1	2190199PEX	CYLINDER	6,322.11	6,322.11
1	2144944PE	HARNESS-I	221.61	221.61
1	CT9444TRP	CLAMP-CONSTANT TORQUE #44	9.98	9.98
1	F16-6009031B413SB0	CLAMP-HOSE T BOLT	17.43	17.43
2	CH498745-14	BRAKE CLEANER NON-CL 48 S	5.94	11.88
2	CT550LTRP	CLAMP-CONST TORQUE HD SS	14.95	29.90
1	1827279PE	GASKET-EXHUAUST	38.56	38.56
1	1827519PE	GASKET-EXHAUST FLEX TURBO	36.69	36.69
1	1782835PE	V-CLAMP, QUICK CONNECT	35.00	35.00
1	1798862PE	CLAMP	27.33	27.33
6	1977900PE	CYLINDER	270.99	1,625.94

- 6 REPAIR ISSUES UNRELATED TO OVERHAUL
 FOUND UNIT PUMP LEAKING EXTERNALLY. DISCONNECTED FUEL LINE. LOOSENE
 HOLD DOWN BOLTS. REMOVED UNIT PUMP. CLEANED RUST FROM PUMP MATING
 SUFACES. INSTALLED PUMP. INSTALLED FUEL LINE. PROGRAMED UNIT PUMP. NEW
 PUMP CODE: LJFM. CLEARED CODES. STARTED UNIT AND LET IDLE. CODE
 RETURNED. SWAP NUMBER 3 FUEL INJECTOR AND JAKE BRAKE ASSEMBLY TO
 VERIFY THE FAILED COMPONENT, FOUND FUEL INJECTOR TO BE FAILED. REMOVE

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AND REPLACE FUEL INJECTOR, CHECKS OKAY, COOLANT PUMP STARTED LEAKING
ON ROAD TEST, BRING UNIT BACK AND REPLACE PUMP. INLET NOX SENSOR CODES
SET DURING STATIONARY REGEN, PERFORM TROUBLESHOOTING AND FOUND FAILED
INLET NOX SENSOR. GET CUST APPROVAL TO REPLACE SENSOR, R&R SENSOR,
CHECKS OKAY. FOUND EXHAUST LEAK AT DOC, REMOVE AND REPLACE CLAMP AND
GASKET.

TOTAL LABOR 1,228.50
TOTAL PARTS 2,742.36

Qty	Part Number	Description	Unit	Extended
1	1889126PEX	SENSOR-NOX, BEFORE CATALY	664.59	664.59
1	1942598PE	COOLANT PUMP CARTRIDGE, S	379.07	379.07
1	1644567PE	O-RING D=126.59	7.99	7.99
1	1861200PRX	FUEL PUMP, MX-13 EPA 10,	344.34	344.34
2	1830688PE	BOLT-FLANGE M10	1.17	2.34
1	1825900PEX	INJECTOR, MX-13 EPA10	1,317.47	1,317.47
1	1638271PE	O-RING INJECTOR	7.73	7.73
1	1638270PE	O-RING INJECTOR	7.68	7.68
1	2127551PE	RING SEAL, INJECTOR	10.54	10.54
1	1313120PE	BOLT-FLANGE M8X55	0.61	0.61
SHOP SUPPLIES 500.00				

OTH SUPPL RECOVERY-MK 0610921 500.00
 RETAIL LBR TRK-MD 4610940 13,041.00
 P&A RETAIL RO'S-MD 4680900 21,394.86
 CHARGE 2200000 34,935.86

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