

**CALGARY**

9115 - 52 Street SE, Calgary, Alberta T2C 2R4
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RED DEER

7690 Edgar Industrial Ct, Red Deer, Alberta T4P 4E2
Phone: (403) 314-1919 Fax: (403) 314-2203

Sold To: TRICAN WELL SERVICE LTD.
E00710 TRICAN PARTNERSHIP

Ship To: TRICAN WELL SERVICE LTD.
TRICAN PARTNERSHIP

CUSTOMER INVOICE**Invoice Number****R30417**

Date: 02-26-21

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#2900, 645 - 7 AVENUE SW
CALGARY, AB T2P 4G8
403 266-0202

#2900, 645 - 7 AVENUE SW
CALGARY, AB T2P 4G8

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Year	Make / Model	VIN	License	Mileage	Unit/Stock
2012	PETERBILT /	1XPTP4EX0DD162200	J-51881	418242	219342
Delivery Mileage	Delivery Date	Engine Model / Serial #	Transmission Model/Serial #		
	06-29-12	/ 79545489	/		

Engine Hours	Reefer Hours	Standby Hours	P.O. Number	Open Date / Time	Complete	Service Writer
12431.0			726925	02-17-21 / 09:34AM	02-26-21	ES*ES
Memo						

Tax ID Date: Tax ID:

- 1 PERFORM EXPRESS ASSESSMENT
BEFORE: _____ AFTER: _____

INSPECT & ADVISE FOR:

REPLACE DPF AND BROKEN EXHAUST ELBOW

CAUSE:

DPF SUBSTRATE DAMAGED

CORRECTION:

CUSTOMER STATES DPF MAY BE DAMAGED. SOOT PRESENT AT STACK AND ATD. CONNECTED TO UNIT. ONE ACTIVE FAULT 3135 FOR DPF OUTLET PRESSURE ERRATIC. UNABLE TO PRINT FAULTS AT THIS TIME. INSPECTED ATD AND FOUND CLAMP AT DPF OUTLET IS LOOSE AND SHIFTED TO OBSTRUCT FASTENER. DPF OUTLET JOINT IS SOURCE OF SOOT. NO SOOT SHOULD BE PRESENT AFTER DPF INDICATING A CRACK OR FAILURE OF DPF SUBSTRATE. REMOVED FOR ACCESS, ATD COVERS, RIGHT SIDE STEP, DPF DELTA-P SENSOR BOX. FOUND REAR MOUNTING BAND CLAMP FOR DPF OUTLET IS ALSO LOOSE AND SHIFTED TO OBSTRUCT FASTENER. LOOSENED DPF OUTLET MOUNT CLAMP AND DPF CLAMPS. REMOVED DPF FROM UNIT. FOUND LARGE SECTION OF OUTLET SIDE OF SUBSTRATE BROKEN OUT AND MISSING. REMOVED CLAMP AFTER DPF OUTLET ELBOW AND REMOVED FROM UNIT. CUT CLAMP AT DPF OUTLET. FOUND LIP OF ELBOW IS WORN VERY THIN DUE TO LOOSE CLAMP. INSPECTED INSIDE DECOMP TUBE AND FOUND SUBSTRATE DEBRIS IN TUBE. REGEN AFTER REPAIR MAY INDICATE SCR IS CONTAMINATED OR PLUGGED AS PROGRESSIVE DAMAGE FROM DPF FAILURE. CLEANED UP ALL DPF AND EXHAUST MATING SURFACES REMOVING OLD GASKETS AND DEBRIS FROM OUT OF EXHAUST. REMOVED SENSORS OUT OF OLD DPF. NEEDED TO HEAT UP SENSOR PORTS TO REMOVE THEM. CLEANED UP THREADS ON SENSORS THAT WERE REMOVED FROM OLD DPF. INSTALLED SENSORS INTO NEW DPF. INSTALLED DPF WITH NEW GASKETS AND CLAMPS, INSTALLED NEW EXHAUST ELBOW THAT CONNECTS DPF OUTLET TO DECOMPOSITION TUBE WITH NEW GASKETS AND CLAMPS. CONFIRMED NO EXHAUST LEAKS ARE PRESENT FROM REPAIRS, AND INSTALLED PASSENGER DOOR STEPS AND AFTER TREATMENT HEAT SHIELDS.

TOTAL LABOR	460.00
TOTAL PARTS	3,677.92
TOTAL FREIGHT	60.00

Qty	Part Number	Description	List	Unit	Extended
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2	2880215	GASKET, A	42.64	21.32	42.64
2	ABP-N49-CD004	CLAMP-V-B	109.84	54.92	109.84
2	ABP-N49-GD004	GASKET-13	78.56	39.28	78.56
1	ABP-N49-AXN1103	FILTER,DI	2,608.61	2,226.01	2,226.01
2	2880213	CLAMP,V B	139.52	69.76	139.52
1	2880377	ELBOW,TUB	1,458.96	1,081.35	1,081.35
1	FREIGHT	FREIGHT	75.00	35.00	35.00
1	FREIGHT	FREIGHT	50.00	25.00	25.00

2 REPAIR COOLANT LEAK NEAR AIR DRIER

CAUSE:

WORN OUT HOSE CLAMPS

CORRECTION:

REMOVED AND REPLACED WORN OUT HOSE CLAMPS.

TOTAL LABOR	57.50
TOTAL PARTS	2.90

Qty	Part Number	Description	List	Unit	Extended
2	BRZ-9410H	CLAMP AIR	2.90	1.45	2.90

3 REPAIR ENGINE OIL LEAK AND FUEL LEAK AT FUEL PUMP

CAUSE:

FAILED HIGH PRESSURE PUMP GASKET

CORRECTION:

CLEANED UP OIL AROUND HIGH PRESSURE PUMP, STARTED REMOVING FUEL LINES TO PUMP. REMOVED ALL NECESSARY FUEL LINES AND SUPPORT BRACKETS ON TOP AND BOTTOM OF FUEL PUMP. REMOVED FUEL PUMP MOUNTING BOLTS, BARRED ENGINE OVER AND PINNED ENGINE. TRIED REMOVING FUEL PUMP BUT FUEL PUMP IS TO LARGE TO FIT PAST ENGINE BLOCK AND FRAME RAIL OF UNIT.

CLEANED FUEL PUMP AND FRONT GEAR COVER MOUNTING FACES, AND INSTALLED PUMP BACK INTO POSITION WITH A NEW MOUNTING GASKET. INSTALLED ALL FUEL LINES AND FUEL PUMP SUPPORT BRACKETS. TOOK EXTRA TIME TO CLEAN AREA OF PUMP REALLY WELL AND MAKE SURE ALL FUEL LINES AND FITTINGS WERE FREE OF DIRT AND DERBIS. RAN UNIT AND CHECK FOR LEAKS NO OIL LEAKS AT FUEL PUMP PRESENT. DID NOTICE A LARGE EXHAUST LEAK ON FLEX PIPE THAT IS LOCATED JUST BEHIND OUTLET OF TURBO BY FRAME RAIL. EXHAUST LEAK ON FLEX PIPE IS COMING FROM A CRACK/BRAKE IN FLEX PIPE.

TOTAL LABOR	402.50
TOTAL PARTS	125.76
TOTAL FREIGHT	20.00

Qty	Part Number	Description	List	Unit	Extended
1	5440813	GASKET,AC	24.25	19.40	19.40
1	5414049	GASKET,FU	45.08	37.56	37.56
4	3963988	WASHER,SE	24.64	6.16	24.64
2	4944257	WASHER,SE	44.16	22.08	44.16

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1 FREIGHT Tax ID Date: Tax ID: FREIGHT 50.00 20.00 20.00

4 REPLACE YOKE AND U JOINT AT STEADY BEARING

CAUSE:

WORN OUT YOKE AT THE STEADY BEARING.

CORRECTION:

DISCONNECTED DRIVELINE AT U-JOINT NEAR STEADY BEARING. REMOVED U-JOINT, CLEANED UP U-JOINT EARS ATTACHED TO DRIVELINE TO FIRST DIFF. INSTALLED NEW U-JOINT TO THE DRIVELINE. REMOVED OLD YOKE FROM RIGHT BEHIND STEADY BEARING, MATCHED MARKING ON NEW YOKE TO SAME AS OLD YOKE SO THAT NEW YOKE WILL BE IN PHASE WITH DRIVELINE WHEN ITS INSTALLED. INSTALLED NEW YOKE, OLD YOKE WAS OUT OF PHASE. NEW YOKE IS PHASED PROPERLY WITH DRIVELINE, CONNECTED REST OF DRIVELINE WITH NEW STRAPS AND BOLTS. TESTED DRIVELINE OPERATION-GOOD.

TOTAL LABOR 345.00
TOTAL PARTS 407.11
TOTAL FREIGHT 40.00

Qty	Part Number	Description	List	Unit	Extended
1	SP-SPL250-3X	U-JOINT K	190.88	159.06	159.06
1	SP-250-74-11	NUT	18.99	17.15	17.15
1	SP-250-4-21-1	END YOKE	221.06	208.99	208.99
1	SP-250-70-18X	STRAP KIT	24.13	21.91	21.91
1	FREIGHT	FREIGHT	75.00	40.00	40.00

5 REPAIR EXHAUST LEAKS AT FRONT EXHAUST MANIFOLD SECTION

CAUSE:

EXHAUST MANIFOLD LEAK

CORRECTION:

REPLACED EXHAUST MANIFOLD GASKETS. DRAINED COOLANT, REMOVED TURBO ELECTRICAL HARNESS'S, REMOVED CAC PIPING, AND STARTED REMOVING TURBO COOLANT LINES. REMOVED ALL TURBO COOLANT AND OIL LINES, AND REMOVED TURBO, REMOVED EXHAUST MANIFOLD. ALL FOUR TURBO MOUNTING STUDS WERE SIEZED IN EXHAUST MANIFOLD AND TURBO FLANGE AND TOOK SOME TIME HEATING STUDS AND WORKING THEM FREE. REMOVED BUILT UP RUST ON ALL EXHAUST MANIFOLD MOUNTING BOLTS. CLEANED/BUFFED UP EXHAUST MANIFOLD AND CYLINDER HEAD EXHAUST PORTS. INSTALLED EXHAUST MANIFOLD WITH NEW MANIFOLD GASKETS AND TORQUED MOUNTING BOLTS TO SPEC. CLEANED UP AREA FROM REPAIRS. INSTALLED TURBO WITH NEW MOUNTING STUDS, GASKET AND NUTS. INSTALL ALL TURBO COOLANT LINES WITH NEW SEALS. INSTALLED TURBO OIL DRAIN WITH NEW GASKET. INSTALLED EGR PRESSURE TUBES WITH NEW SEALS AND HAD TO SPEND SOME TIME CLEANING THREADS FOR ONE PRESSURE TUBE BECAUSE TUBE DID NOT WANT TO INSTALL PROPERLY BECAUSE OF SOME GALLED THREADS ON FRONT SECTION OF EXHAUST MANIFOLD. INSTALLED ALL INTAKE AND CAC PIPING. FILLED COOLANT SYSTEM WITH A VACUUM FILL AND CONNECTED ALL TURBO ELECTRICAL CONNNECTORS. TOPPED UP COOLANT.

TOTAL LABOR 690.00
TOTAL PARTS 485.73
TOTAL FREIGHT 25.00

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Qty	Part Number	Description	List	Unit	Extended

1	4988280	GASKET	6.30	5.04	5.04
4	5486657	GASKET,EX	89.04	22.26	89.04
1	3695041	GASKET,TU	21.83	17.46	17.46
4	4298975	NUT, LOCK	45.20	11.30	45.20
4	4298242	STUD	81.20	20.30	81.20
1	5264570	GASKET,OI	5.75	4.60	4.60
2	4934279	WASHER,SE	11.16	5.58	11.16
2	4934278	WASHER,SE	7.96	3.98	7.96
2	3684284	WASHER,SE	18.26	9.13	18.26
1	2882561	TUBE,PRES	99.65	83.04	83.04
1	3682940	GASKET,EX	27.66	23.05	23.05
1	4966441	GASKET,EX	29.64	23.71	23.71
1	3104230	GASKET,EX	62.56	50.05	50.05
1	FG-CC2820X	ANTIFREEZ	31.32	25.96	25.96
1	FREIGHT	FREIGHT	50.00	25.00	25.00

6 PERFORM CLUTCH ADJUSTMENT

CAUSE:

CLUTCH WAS OUT OF ADJUSTMENT.

CORRECTION:

ADJUSTED CLUTCH RELEASE BEARING GAP TO CLUTCH BRAKE, AND ADJUSTED CLUTCH FORK FREE PLAY GAP.

TOTAL LABOR 115.00

7 DIAGNOSE ABS LIGHT ON

HOOKED COMPUTER TO UNIT AND PRINTED FAULT CODES FOR ABS MODULE
 HOOKED UP DIAGNOSTIC SOFTWARE AND PRINTED TROUBLESHOOTING
 STARTED DIAGNOSING ABS FAULTS. FINISHED DIAGNOSING ABS FAULTS, CHECKED
 WIRING RESISTANCE BETWEEN BOTH ABS SENSORS THAT ARE FAULTING AND ABS
 MODULE. WIRING WAS IN SPEC FOR BOTH SENSORS BETWEEN GROUND AND POWER
 SIDE OF CIRCUITS. SENSOR RESISTANCE WAS IN SPEC AT 1700+ OHMS FOR BOTH
 SENSORS BUT NEITHER SENSOR WOULD PICK UP WHEEL SPEED WHEN WHEEL WAS
 SPINNING. REMOVED BOTH RIGHT SIDE DRIVE AXLE TIRES TO INSPECT ABS
 SENSOR GAP AND FOUND BOTH SENSORS DID NOT HAVE EXCESSIVE GAP BUT LOTS
 OF BRAKE DUST AND DIRT BUILT UP AROUND SENSOR AND TONE RINGS.
 CLEANED UP BOTH SENSORS AND TONE RINGS, PUSHED BOTH SENSORS INTO
 TONE RINGS AND TRIED TO GET SENSORS TO PICK UP WHEEL SPEED WHILE
 TIRES WERE SPINNING. ONCE AGAIN NEITHER SENSOR PICKED UP WHEEL SPEED.
 FOUND SOURCE OF ABS FAULTS. AT BOTH MIDDLE AND REAR DRIVE AXLE
 PASSENGER SIDE ABS SENSOR CONNECTORS, MALE PORTION OF CONNECTOR ON
 TRUCK HARNESS SIDE, BOTH MALE CONNECTOR HAD CORRODED WIRES AT
 CONNECTOR TERMINAL PIN BASES. REPAIRED BOTH CONNECTORS BY INSTALLING
 NEW MALE ABS CONNECTORS TO BOTH SENSOR HARNESS'S IN REPLACEMENT OF OLD
 DAMAGED ABS MALE CONNECTORS. AFTER REPAIRS WERE MADE, TIED UP BOTH
 ABS HARNESSES AND ROAD TEST UNIT. ABS LIGHT AND FAULTS WENT INACTIVE
 IMMEDIATELY DURING ROAD TEST CONFIRMING REPAIR.

TOTAL LABOR 690.00

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Tax ID Date: Tax ID:

TOTAL PARTS

33.76

Qty	Part Number	Description	List	Unit	Extended
1	TDA-S449-713-030-0	SENSOR EX	21.32	16.88	16.88
1	TDA-S449-713-030-0	SENSOR EX	21.32	16.88	16.88

8 REPAIR LEAKING EXHAUST FLEX PIPE

CAUSE:

FLEX PIPE BELLOW ON OUTLET OF TURBO HAD A CRACK IN IT.

CORRECTION:

REMOVED OLD DAMAGED EXHAUST BELLOW, CLEANED UP EXHAUST PIECES WHERE BELLOW MOUNTS TO OLD EXHAUST GASKET. INSTALLED NEW EXHAUST BELLOW WITH NEW CLAMPS AND GASKETS. RAN UNIT AND CONFIRMED REPAIR, THERE IS NO MORE EXHAUST LEAKING.

TOTAL LABOR 115.00
TOTAL PARTS 436.96

Qty	Part Number	Description	List	Unit	Extended
1	EBPB11861	bellows	524.36	436.96	436.96

G.S.T. - REG. NO. 848002507RT0001 5 % OF 8,420.14 = 421.01

LABOR 2,875.00
PARTS 5,170.14
SUBLET 0.00
SUPPLIES 230.00
FREIGHT 145.00
OTHER CHGS 0.00

SUBTOTAL 8,420.14
G.S.T. 848002507RT0001 421.01
TOTAL 8,841.15

I acknowledge as an owner or representative of the above company and/or individual, the indebtedness for any and all requested repairs, diagnostics, and declined warranty; and understand and grant that a Garage Keeper's lien will be filed to secure the amount of these and all possible warranty repairs thereto by RJAMES MANAGEMENT GROUP LTD. I hereby acknowledge my indebtedness in the amount of the balance of this invoice either by purchase order, signature, email, and/or phone confirmation. I authorize RJAMES MANAGEMENT GROUP LTD. to collect, use and disclose the personal and business information that I have provided for the purpose of providing goods and services as requested, to better understand needs and preferences, to establish and maintain responsible commercial relations, and to provide ongoing service(s). It is also understood that all warranty or policy claims are submitted on behalf of the customer pending vendor inspection and approval. It cannot be assumed that there is warranty and responsibility for any and all debt of the repair(s) is assumed by the customer in full until approval is granted. RJAMES MANAGEMENT GROUP LTD. will issue a credit to you or your account for the amounts paid by the vendor when and if a warranty or policy claim is approved. Only repairs performed by RJAMES MANAGEMENT GROUP LTD. at an authorized facility of RJAMES MANAGEMENT GROUP LTD. Will have a 90 day workmanship guarantee and all claims made can only be honored at these facilities. If wheels are removed for any reason, it is the customer's responsibility to have them re-torqued at 100 kms. RJAMES MANAGEMENT GROUP LTD. Will not be liable for loose wheels. TERMS: The full amount of this invoice is payable 30 days following purchases of products or services. SERVICE CHARGES: 2% per month or 24% per annum on overdue accounts. A \$50.00 service charge will apply to all NSF cheques.

CUSTOMER: X _____

GST#: 848002507 RT0001

DATE _____