



Work Order Invoice

L101368

Date: 10-24-22

Visit us at our website: [www.brandt.ca](http://www.brandt.ca)

Remit to: Brandt Tractor Ltd. - 10121 Barlow Trail NE - Calgary, AB T3J 3C6

Billing Inquiries: Please email us at [transportar@cervusequipment.com](mailto:transportar@cervusequipment.com)

Sold To:

Ship To:

K2461

CUSTOMER INVOICE

Year	Make / Model	VIN	License	Mileage	Unit/Stock
2004	Peterbilt / 379	1XP5DB9X24D826822		876770	25
Delivery Mileage	Delivery Date	Engine Hours	Engine Model / Serial #	Transmission Model/Serial #	
	03-23-04	39229.0	C15 / MBN24244	FO16E310C-LAS / P00165506	

Memo	P.O. Number	Open Date / Time	Complete	Service Writer
	UNIT 25	09-13-22 / 08:42AM	10-12-22	LC*DHI

Tax ID Date: Tax ID:

1 C/C OF ENGINE MISS AND EXCESSIVE BLOWBY

CAUSE:

Engine dusted

CORRECTION:

Pull truck into shop and observe large amounts of blowby coming out of draft tube, Remove intake piping and valve covers, inspect top end, found cam was wear on it but not enough to be causing that much blowby but also found dust in intake piping. Run engine with lids off and observe blowby in top end.

Customer approved engine disassembly.

Drain coolant and oil, unhook batteries, remove charge air piping, sensors, coolant lines, fuel lines, turbo, thermostat housing, peanut cover, cam gear, cam idler, jake heads, rockers, injectors, valve spacer plate and head bolts.

Install picker and remove head and head spacer plate, inspect all parts, found head possibly cracked and cylinders very scared.

Clean up engine deck and head spacer plate, reinstall spacer plate and new oil gasket, measure liner protrusion (Sheet attached), all liners at bottom of spec, some readings below spec, block counter bores will need to be cut.

Remove oil pan, pick up tube, oil pump, block stiffener plate and rod caps, install tooling and remove liners and pistons, inspect crank shaft rod journals, no major scaring, wrap up journals.

Remove and inspect #3&4 main bearing caps, found some scaring on #4 crank journal but able to be cleaned up, customer approved platinum kit, block cutting, cam shaft and rockers. Order parts for repair.

Perform bottom end bearing roll, clean and inspecting all crank journals, #4 needed slight buffing. torque all main bearing caps to spec.

Clean up engine deck, counter bore seats and liner holes to prepare for counter bore cutting.

SERVING SASKATCHEWAN		SERVING ONTARIO				
Collision Centre (306)-664-3368	Estevan (888)-345-8070	Ayr (866)-539-7383	Barrie (888)-221-2191	Belleville (343)-453-0348	Cardinal (877)-657-1300	Hagersville (800)-544-9874
<input checked="" type="checkbox"/> Lloydminster (800)-667-6323		London (800)-561-7383	Mississauga (877)-268-0020	North Bay (800)-734-9876	Ottawa (888)-220-2642	Stoney Creek (844)-643-1214
Regina (800)-667-7716	Saskatoon (800)-667-3098	Sudbury (866)-220-6099	Victoria (877)-426-9001	Whitby (888)-471-8888	Windsor (844)-737-6999	

503-39

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Setup liner ledge cutter, cut all ledges on the block from .030" to .060" for .062" shims, clean up engine block after cutting procedure and rig out tooling.  
 Remove all rockers from rocker shafts and inspect rocker shafts, some wear but well within Cat re use guidelines, install all new rockers to shafts.  
 Clean up bottom end parts, remove oil pump gear from old pump, clean up and torque onto new oil pump.  
 Strip down old cylinder head, clean up parts and swap over to head head with new seals/ gaskets and torque to spec, install new cam into cylinder head, Remove and replace exhaust manifold joint seals, cups and clamps (joints were leaking).

TOTAL LABOR	8,740.00
TOTAL PACCAR	799.82
TOTAL CATERPILLAR	39,574.22
TOTAL OTHER PARTS	30.52
TOTAL CORES	15,945.09
TOTAL GAS/OIL	285.90
TOTAL FREIGHT	50.00
TOTAL ENVIRONMENT CHG	19.38
TOTAL DIRTY CORES	-15,945.09
TOTAL COUPON	-14.00
CONSUMABLES	786.60

Qty	Part Number	Description	Unit	Extended
2	AF996MFLG	FILTER-AIR	111.02	222.04
2	9224TRP	CLAMP-HOSE W/LINER #24	2.40	4.80
1	D1030-2728	HOSE-RADIATOR #48 J20R1-A	43.92	43.92
3	D1030-2650	HOSE-RADIATOR #40 1 PICK=	41.24	123.72
4	CT9444TRP	CLAMP-CONSTANT TORQUE #44	10.25	41.00
14	EC7501	COOLANT-TRP ELC 50/50 JUG	12.47	174.58
100	CT04311	TIE-CABLE 50LB 11.75" BLK	0.39	39.00
50	CT05512	TIE-CABLE 120LB, 15.25" B	0.84	42.00
1	FS1000FLG	SEPARATOR-FUEL/WATER	17.44	17.44
2	55K160	GASKET	43.92	87.84
1	8-662DSP	BATT NUT-CLOSED CAP 3/8"-	3.48	3.48
1	20R7823	KIT-ENG OVER	27,569.16	27,569.16
1	2271204	GASKET	125.93	125.93
1	6V1197	SEAL	42.08	42.08
6	20R3320	ARM-V ROCKER	318.65	1,911.90

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6 20R3318	ARM A V ROCK		254.89	1,529.34
4 1440367	CLAMP		31.04	124.16
2 1803399	PACKING		112.03	224.06
2 1326657	SHEILD		16.59	33.18
2 1326658	SHIELD		23.79	47.58
6 20R3322	ARM A UI ROCKER		384.98	2,309.88
6 9Y3368	INSERT LR		160.29	961.74
1 9M3786	SEAL O RING		12.85	12.85
1 1223772	SEAL O RING		27.01	27.01
1 1090077	SEAL O RING		23.30	23.30
1 4P2383	ADAPTER		308.49	308.49
1 9Y4104	HOSE		22.88	22.88
2 1440367	CLAMP		31.04	62.08
1 6I4363	INSERT SET		160.29	160.29
2 6I4363	INSERT SET		160.29	320.58
1 10R1534	CAMSHAFT		2,424.44	2,424.44
2 2431159	FASTENER		16.11	32.22
6 2W3815	INSERT		160.29	961.74
3 1609874	GASKET KIT		89.61	268.83
1 1090072	OIL PICKUP ORING		14.08	14.08
1 1090076	SEAL O RING		16.86	16.86
1 1433655	OIL STABILIZER		39.56	39.56
1 0503-10-8	fitting		2.30	2.30
1 01022	WD-40		9.97	9.97
1 5900195	CAT YELLOW SPRAY PAINT		18.25	18.25
1 20R7823#	CORE		13,649.25	13,649.25
6 20R3320#	CORE		74.15	444.90
6 20R3318#	CORE		59.30	355.80
6 20R3322#	CORE		102.95	617.70
1 10R1534#	CORE		877.44	877.44
2 550045128	ROTELLA T TRIPLE 15W40 PAIL		118.64	237.28
1 550045135	ROTELLA T TRIPLE 15W40 5L		24.31	24.31
1 550045135	ROTELLA T TRIPLE 15W40 5L		24.31	24.31
1 FREIGHT			25.00	25.00
1 PURO1	PUROLATOR FREIGHT 0-10		25.00	25.00
14 EC7501&	ENV CHG		0.80	11.20
2 550045128&	ENV CHG		2.84	5.68
1 550045135&	ENV CHG		0.75	0.75
1 FS1000FLG&	SEPARATOR-FUEL/WATER		1.00	1.00
1 550045135&	ENV CHG		0.75	0.75
-1 20R7823*	CORE TBRB		13,649.25	-13,649.25
-6 20R3320*	CORE TBRB		74.15	-444.90

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-6 20R3318*	CORE TBRB		59.30	-355.80
-1 10R1534*	CORE TBRB		877.44	-877.44
-6 20R3322*	CORE TBRB		102.95	-617.70
-14 COUPON	Y223197		1.00	-14.00

2 C/C STARTER ENGAGED BUT WON'T DISSENGAGE  
 CAUSE  
 BAD STARTER  
 CORRECTION  
 R&R STARTER AND CHARGE BATTERIES

TOTAL LABOR	760.00
TOTAL PACCAR	627.10
CONSUMABLES	68.40

Qty	Part Number	Description	Unit	Extended
1	FG4314	FITTING-CMPRSN STRCON 1/4	8.30	8.30
1	8200308	STARTER 39MT 11 PIN	618.80	618.80

3 3YR/UNLIMITED MILEAGE OPT WARRANTY \$2300 USD X 1.3707 EXCHANGE RATE=  
 \$3152.61 CND  
 CAUSE:  
 OPT WTY  
 CORRECTION:

TOTAL OPT FEES CUST	3,152.61
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Qty	Part Number	Description	Unit	Extended
1	OPT FEES CUST	fees	3,152.61	3,152.61

4 PRECIOUS METALS KIT PROGRAM CODE NAT-ENG-3276 \$500 USD X 1.3707  
 EXCHANGE RATE = \$685.35 CND FOR PART # 20R7823  
 CAUSE:  
 WTY  
 CORRECTION:

TOTAL OPT FEES CUST	-685.35
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Qty	Part Number	Description	Unit	Extended
-1	OPT FEES CUST	fees	685.35	-685.35

CARBON TAX SURCHARGE 190.00

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G.S.T. - REG. NO. 899544779

5 % OF 54,385.20 = 2,719.26

FACTORY REC COUPONS	-14.00
CORE INV LLM	0.00
PPD ENVIRON. TAX LLM	19.38
WARR - OPTION REBILL	2,467.26
SLS SERV RETAIL	9,500.00
SLS SHOP SUPP LLM SV	855.00
SLS PAC PTS RO LLM	41,031.66
CARBON TAX SURCHARGE	190.00
SLS G O G LLM	285.90
SLS FREIGHT LLM PRTS	50.00
G.S.T. 899544779	2,719.26
<b>PLEASE PAY THIS TOTAL</b>	<b>57,104.46</b>

I/WE HEREBY ACKNOWLEDGE MY/OUR INDEBTEDNESS TO BRANDT TRACTOR LTD. IN RESPECT OF THIS INVOICE. I/WE AGREE TO THE TERMS OF THE SALE LISTED BELOW:

PAYMENT TERMS: DUE AND PAYABLE NET 30 FOLLOWING THE INVOICE DATE. IT IS UNDERSTOOD AND I AGREE TO PAY CARRYING CHARGES OF 2% ON OVERDUE ACCOUNTS.

**1. LIMITED WARRANTY:**

1. When does the warranty apply?

a) ONLY WHEN THE CUSTOMER INFORMS THE SERVICE MANAGER OF BRANDT TRACTOR LTD. WITHIN 30 DAYS OR 6,500 KM OF DISCOVERY OF THE ALLEGED DEFECT. WHICH EVER HAPPENS FIRST.

2. What is the effect of the warranty?

a) THE CUSTOMER IN CONSIDERATION OF THIS WARRANTY WAIVES ANY CLAIM AGAINST BRANDT TRACTOR LTD. IT'S AGENT OR EMPLOYEES.

3. Who is covered by Warranty?

a) ONLY THE ORIGINAL CUSTOMER.

4. What is covered by Warranty?

a) MATERIAL AND WORKMANSHIP WHICH TOGETHER DO NOT EXCEED THE AMOUNT ORIGINALLY CHARGED TO THE CUSTOMER.

5. What is NOT covered by Warranty?

a) DAMAGE CAUSED BY MISUSE, ACCIDENT, ROAD HAZARDS, NEGLIGENCE, PAYMENT OF LOSS OF TIME BY REASON OF THE ALLEGED DEFECT AND WARRANTY. REPAIRS, PAYMENT FOR LOSS OF USE OF VEHICLE BY REASON OF ALLEGED DEFECT AND WARRANTY REPAIRS, INCONVENIENCE, CONSEQUENTIAL DAMAGE.

6. Where are warranty repairs to be done?

a) AT A LOCATION AUTHORIZED BY BRANDT TRACTOR LTD.

2. RESPONSIBILITY FOR EQUIPMENT: BRANDT TRACTOR LTD., WILL NOT BE HELD RESPONSIBLE FOR LOSS TO VEHICLES, OR ARTICLES LEFT IN VEHICLES, IN CASE OF FIRE, THEFT, ACCIDENT, OR ANY OTHER CAUSE BEYOND THE CONTROL OF BRANDT TRACTOR LTD.

3. ALL OLD PARTS REMOVED WILL BE DISPOSED OF, UNLESS OTHERWISE SPECIFIED BEFORE REPAIRS STARTED.

4. THE SIGNATURE OF THE OWNER DULY AUTHORIZED REPRESENTATIVE ON THE ORIGINAL WORK ORDER REQUEST, AUTHORIZED THE REPAIR AND SERVICE WORK LISTED ON THIS REPAIR ORDER, ALONG WITH THE NECESSARY MATERIAL.

5. THE DEALER'S RIGHT TO REGISTER AN EXPRESS MECHANICS LIEN TO SECURE THE AMOUNT OF THE REPAIRS AND OTHER APPLICABLE CHARGES THERETO IS ACKNOWLEDGED.

Customer:  \_\_\_\_\_

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

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