



Brandt Tractor Ltd.
101 Burnt Park Dr.
Red Deer, AB
T4P 0J7
(403) 343-7557

*K05-6
SEP*
**Service
Invoice**



JOHN DEERE

SOLD TO:

RICHARDSON BROS. (OLDS) L

S/N # 1DW460ETJF688317

PAGE 1 SALE TYPE
CUSTOMER NO.

INVOICE DATE	BRANCH	INVOICE NO.
01SEP23	105	1563488

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RICHARDSON BROS. (OLDS)

PURCHASE ORDER NO.	PHONE NUMBER	WORK ORDER NO.	SEG.	DATE OPENED	SALES PRN	
X		1563488	01	23AUG23	599	
MAKE	MODEL	SERIAL NO.	EQUIP. NO.	METER	AUTHORIZED BY	
JD	460E	1DW460ETJF688317	778	6551	NICK	

DESCRIPTION	AMOUNT
REPAIR FAILED ENGINE. COMPLAINT: Rough running engine, low engine oil pressure, oil sample results indicate internal component failure. CAUSE: Camshaft bushing has spun in bore. CORRECTION: 5-Confirm complaint of rough running engine, sounds to be valve train issue. Review oil sample results, show high level of copper and lead. Remove rocker arm cover and found valve bridge dislodged from cylinder #4 exhaust. Reinstall valve bridge and check valve lash. Connect Service Advisor, check for DTC: found multiple faults of low engine oil pressure. Run engine, and monitor engine oil pressure, 15psi at idle which is low. Perform multiple electronic compression tests, cylinder 1 and 3 are consistently low. Engine removal and disassembly required for further diagnosis. .25-Complete service task hazard assessment.	

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DATE

QST # 1226957240

DESCRIPTION	AMOUNT
TOTAL PARTS	
TOTAL LABOR	
MISC. CHARGES SALES TAX	
PLEASE PAY THIS TOTAL	➔ **CONTINUED**

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DESCRIPTION	AMOUNT
8-Drain all engine fluids (Coolant and Engine Oil) into pails and remove the hood. Disconnected all lines to engine and remove frame wiring harness. Tip operators cab to allow access to rear of engine. 8-Remove rear hood support and disconnect cooling system to allow cooler to open further. Disconnect all adjacent lines and wiring to free the engine. 8-Remove engine mounts and drive shaft hardware. Remove engine from machine with crane and carry into rebuild room. Begin disassembly by removing aftercooling system. 2,25-Remove fan pump assembly from engine. Mount engine to repair stand. Remove oil pan and oil pump from engine block. 8-Remove valve train and camshaft, found #3 camshaft bearing has failed, bearing siezed to camshaft and spun in bore. Remove cylinder head and piston/liner assemblies for inspection, found broken piston rings on pistons #1 and #3. Main bearings and connecting rod bearings are showing copper. Due to no availability of repair parts a new engine was sourced. 10,25-Reassemble engine for core	

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DESCRIPTION	AMOUNT
return. 8-Unpackage new engine, swap over componenets from old engine that are not included with new engine. 8-Attach lifting device to new engine, install engine into machine and secure with mounting hardware. Connect drive shaft. 5.25-Connect exhaust pipe to engine and secure brackets. Connect air pipes to engine, air cleaner and after cooler. 7-Connect wiring harnesses, coolant and fuel lines. 6-Attach lifting device to new engine, install engine into machine and secure with mounting hardware. Connect drive shaft. Connect exhaust pipe to engine and secure brackets. Connect air pipes to engine, air cleaner and after cooler. 3-Connect wiring harnesses, coolant and fuel lines. Install rear hood support. Position all coolers back into proper locations. 1.75-Fill engine coolant system, top up engine oil to proper level. 2-Calibrate new EGR and new VGT linkage. Clear all DTC. Install manual oil pressure gauge into engine to monitor oil pressure on start up. 1.75-Start engine, confirm oil pressure	

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DESCRIPTION	AMOUNT
is present, 50psi at idle. Enigne seems to be operating normally. 6-Install hood and panels. Perform "Lost Data ECU Reset" and initiate a service regen to get ECU to recognize Aftertreatment components. Secure cab in operating position.SGS COMPLICATIONS:Original AT393196 remote oil filter hose was about 2" too short to connect to oil filter adaptor. After swapping filter adaptors and reviewing Parts advisor we found the original AT393196 hose was 2" shorter than the hose length listed in hose recipe for this part #. Could not get correct hose and fittings, readily through Deere, had proper hose made locally. 4 N R114105 SCREW 1 N R529640 GASGASKE 1 N AT451953 DIPSTICK 1 N AT535634 SENSOR 1 N RE572785 OIL FILT 4 N T432340 CLAMP CY 2 N RE52702 CLAMP 50 N R44302 TIE BAND 1 N HOSEASSMBLY HOSE ABOVE MAKES AT393196 1 N 19M7788 SCREW 1 N 19M7790 SCREW 1 N 14M7299 FLANGE N	

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DESCRIPTION			AMOUNT
1	N T78612	O-RING	
2	N TY26661	BREAK-IN	
1	N TY22467	CLAMP	
1	N RG40013-1	DIESEL E	
1	N RG40013-2	DIESEL E	
1	N RG40013-3	DIESEL E	
** TOTAL LABOR **			
CARBON TAX SURCHARGE			
>>--> SEG# 01 PRT LAB MSC			

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NEED NAME, UNIT #
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DESCRIPTION						AMOUNT
ITEMS NOT COVERED UNDER WARRANTY.						
1	N	T363281	RADIATOR			76.23
15	N	TY26578-1L	JD COOLA			2.99
35	N	WDF	WASTE DI			.10
1	N	TY27318	HYDRAULI			273.11
12	N	UC-26	3/4" PIG			.79
1	N	DZ10469	BELT TEN			357.08
1	N	PM38622	SEALANT			42.00
>>--> SEG# 02 PRT 806.25 LAB .00 MSC .00						806.25
* GST/HST *						40.31
* TOTAL GST/HST * - GST No. 899544779						40.31

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DESCRIPTION	AMOUNT
TOTAL PARTS	806.25
TOTAL LABOR	0.00
MISC. CHARGES	0.00
SALES TAX	0.00
PLEASE PAY THIS TOTAL	846.56

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JD	460E	1DW460ETJJF688317	778	4626	RALPH	

DESCRIPTION	AMOUNT
DIAGNOSE/REPAIR 523235.0 CLUTCH E CODE COMPLAINT: Complaint for the Clutch E slippage code TCU 523235.0 CAUSE: Found the Transmission Clutch E failure and slipping. CORRECTION: Customer complains of Clutch E code TCU 523235.0 Coming active while trying to accelerate the machine. Checked transmission fluid level. Transmission oil is very dark and has a Burnt smell. Ran machine and warmed up transmission to operating temp. Attempted to calibrate transmission. Transmission fails when trying to calibrate the Clutch KE. Acquired Transmission oil sample to send away for analysis. Removed both transmission oil filters Drained oil filters and cut open. Transmission oil filters have excessive amounts of debris. Metal and clutch material present in filters. Installed 2 new Transmission oil filters onto machine.	

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DESCRIPTION	AMOUNT
Advised customer to transport machine to the shop for repairs. Suspect of Transmission Clutch E failure. Reviewed DTAC solutions 100211 & 216919. Complete diagnostic work sheets from solution 100211 and all required tests performed. Complete service task hazard assessment Machine parked and prepared for service. Coolant, hydraulic oil and transmission oil drained. Panels removed and cab tilted. A/C recovered and cab disconnected from machine. Cab rigged and removed from machine. Aftertreatment DEF, coolant hoses and wiring harnesses disconnected and removed. Aftertreatment removed from machine. Hydraulic tank hoses were disconnected and hydraulic tank was removed from the machine. The main hydraulic pump was disconnected and removed from the transmission. All 3 driveshafts were disconnected from the transmission. Transmission cooler and filter hoses were removed. Secondary steering hoses removed from the pump. Transmission removed from the machine.	

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DESCRIPTION	AMOUNT
Transmission oil cooler was disconnected and removed from the cooling package. Transmission cooler hoses were drained and cleaned. Transmission filter head disconnected and removed. Filter head cleaned and filter head hoses cleaned. Filter head installed and connected. New transmission oil cooler unpackaged and installed in the cooling package. Cooler hoses connected. New transmission unpackaged and mounting brackets, fittings and test ports swapped from old to new transmission. New transmission installed in machine and mounting bolts tightened. Cooler and filter hoses connected. 3 drive shafts installed and bolts torqued. Hydraulic attenuator installed in machine and secondary steering pump connected. Hydraulic pump installed and connected. Hydraulic tank installed on machine and hoses connected. Aftertreatment installed and connected to machine. DEF hose, coolant hoses and wiring harnesses connected. Panels and hood installed. Cab installed and steering and brake hoses connected. Tilt cylinder	

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DESCRIPTION	AMOUNT
installed and cab mounting bolts torqued. Coolant filled and work area cleaned. Filled coolant system using vacuum filler device. Install cab, Install mounting hardware, Connect cab electrical and air conditioning lines. Fills Hydraulic system with oil. Fill a/c unit to Spec. Fill transmission with oil, started truck and checked for leaks. Checked all fluid levels, heated up transmission oil to spec for calibration, and performed calibration. Failed transmission returned for core. DTAC CASE NO.: 1967093. All good. Job done. JC solutions 100211 & 216919 3 N AT468647 OIL FILT 1 N 19M7784 SCREW 1 N N205415 CLAMP CY 1 N AT459399 HYDRAULICY 1 N AT459016 OIL COOLCY 1 N AT460896 TRANSMISCY 1 N AT386615 SENSOR 1 N AT477143 SUCTION XY 1 N R183409 O-RING 1 N R183411 O-RING 1 N T174107 O-RING 1 N T116604 GASKET	

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DESCRIPTION	AMOUNT
2 N R504067 WASHER CY	
1 N T70176 O-RING	
1 N R501137 GASKET	
1 N T262150 O-RING	
1 N T354256 O-RING CY	
1 N T155729 O-RING	
1 N R529640 GASKET	
5 N TY27743 OIL	
1 N RE12363 ELECTRIC	
1 N R78053 ELECTRIC	
4 N R78063 ELEC CO	
2 N R78061 ELEC CO	
2 N R78060 ELEC CO	
** TOTAL LABOR **	
CARBON TAX SURCHARGE	
>>--> SEG# 01 PRT LAB MSC	
DIAGNOSE/REPAIR 103.05 CODE	
COMPLAINT: Complaint for the ECU 103.05 Turbo speed sensor code active	
CAUSE: Found the Speed sensor DZ103962 failed internally.	
CORRECTION: Laptop connected to machine and codes retrieved. Turbo speed sensor value was	

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DESCRIPTION	AMOUNT
not reading. Diagnostic test box connected and wiring tested ok. Guards and shields removed to gain access to turbo speed sensor, failed speed sensor removed and new sensor installed and connected, reinstall guards and shields, run engine with Service Advisor connected to monitor turbocharger speed, appears to be reading normally. Disconnect Service Advisor. All good. Job done. JC 1 N DZ103962 SENSOR K ** TOTAL LABOR ** CARBON TAX SURCHARGE >>--> SEG# 02 PRT LAB MSC REPAIR FOR LOW COOLANT TEMPERATURE. COMPLAINT: Complaint was the Engine not reaching operating temperature. CAUSE: Found the Thermostats stuck open. CORRECTION: Confirm complaint of engine running low engine temperature, suspect thermostat stuck open.	7

PAST DUE INTEREST 1 1/2% PER MONTH (18% ANNUM), MINIMUM CHARGE OF \$1.50.

I hereby authorize the above repair work to be done along with the use of necessary materials. You and your employees may operate above machine for purposes of testing, inspection, or delivery at my risk. I agree to pay cash on delivery of machine or on terms satisfactory with you and until paid in full an express mechanics lien is acknowledged on above machine to secure the amount for repairs thereto. It is understood that this company assumes no responsibility for loss or damage by theft or fire to machine placed with them for storage, sales, repair or while field testing.

X _____
SIGNATURE

DATE

DESCRIPTION	AMOUNT
TOTAL PARTS	
TOTAL LABOR	
MISC. CHARGES SALES TAX	
PLEASE PAY THIS TOTAL ➔	**CONTINUED**

CUSTOMER COPY



Brandt Tractor Ltd.
101 Burnt Park Dr.
Red Deer, AB
T4P 0J7
(403) 343-7557

Service Invoice



JOHN DEERE

SOLD TO:

RICHARDSON BROS. (OLDS) L

S/N # 1DW460ETJJF688317

INVOICE DATE	BRANCH	INVOICE NO.
01MAY22	105	1558287

PAGE
7
SALE TYPE
CUSTOMER NO.

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RICHARDSON BROS. (OLDS)

PURCHASE ORDER NO.	PHONE NUMBER	WORK ORDER NO.	SEG.	DATE OPENED	SALESPRN	
X		1558287	04	04MAY22	599	
MAKE	MODEL	SERIAL NO.	EQUIP. NO.	METER	AUTHORIZED BY	
JD	460E	1DW460ETJJF688317	778	4626	RALPH	

DESCRIPTION	AMOUNT
Complete service task hazard assessment. Charge air and coolant hoses removed to access thermostat housing. Housing removed from engine and cleaned. New thermostats installed. Thermostat housing installed on engine and torqued. Charge air and coolant hoses connected. Engine now runs at 190-1950 F. All good - verified repair. JC 1 N R528512 SEAL 2 N R530142 O-RING 1 N 51M7040 O-RING 3 N R529398 SEAL 1 N R531530 GASKET XY 3 N RE554015 THERMOST ** TOTAL LABOR ** CARBON TAX SURCHARGE >>--> SEG# 04 PRT LAB MSC	

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X _____
SIGNATURE

DATE

QST # 1226957240

DESCRIPTION	AMOUNT
TOTAL PARTS	
TOTAL LABOR	
MISC. CHARGES SALES TAX	
PLEASE PAY THIS TOTAL	



Brandt Tractor Ltd.
101 Burnt Park Dr.
Red Deer, AB
T4P 0J7
(403) 343-7557

Service Invoice



JOHN DEERE

SOLD TO:

RICHARDSON BROS. (OLDS) L

INVOICE DATE	BRANCH	INVOICE NO.
01MAY22	105	1558287

PAGE
1
SALE TYPE
CHARGE
CUSTOMER NO.

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NEED NAME, UNIT #
P AND PO # ON ALL INVS

PURCHASE ORDER NO.	PHONE NUMBER	WORK ORDER NO.	SEG.	DATE OPENED	SALES PRN	
X		1558287	06	19MAY22	599	
MAKE	MODEL	SERIAL NO.	EQUIP. NO.	METER	AUTHORIZED BY	
JD	460E	1DW460ETJF688317	778	4626	RALPH	

DESCRIPTION							AMOUNT
O/T TRAVEL NOT COVERED UNDER WTY							
* LABOR *							275.00
CARBON TAX SURCHARGE							5.50
>>--> SEG# 06 PRT .00 LAB 275.00 MSC 5.50							280.50
* GST/HST *							14.03
CHANGE REAR AXLE OIL AND FILTER.							
1	AT418095	HYDRAULI		168.09			168.09
1	TY22062	HY-GARD		76.13			76.13
60	WDF	WASTE DI		.10			6.00
3	AR69444	HY-GARD		151.53			454.59
2	AT468647	OIL FILT		86.77			173.54
>>--> SEG# 07 PRT 878.35 LAB .00 MSC .00							878.35
* GST/HST *							43.92
* TOTAL GST/HST * - GST No. 899544779							57.95

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X

SIGNATURE

DATE

QST # 1226957240

DESCRIPTION	AMOUNT
TOTAL PARTS	878.35
TOTAL LABOR	275.00
MISC. CHARGES	5.50
SALES TAX	0.00
PLEASE PAY THIS TOTAL	1,216.80

CUSTOMER COPY