

Kangas Equipment Repair Inc.

1305 Holden Road
Selwyn, Ontario
K9J 6X5

Invoice

Date	Invoice #
4/28/2020	10171C

Invoice To
A [REDACTED]

PAID
05/04/2020

Terms
Net 30

Location	Serial #	Hours
SHOP	NKBLAOX9LJ922380	

MACHINE ID	Item	Service Date	Description	Qty	Rate	Amount
KENWORTH T450	(R) L-6 RILEY	3/25/2020	10171C SPOKE WITH KEN ABOUT TRUCK SMOKING BADLY. BROUGHT THE TRUCK UP TO THE SHOP. RAN THE TRUCK TO SEE HOW IT SMOKED. TRIED TO SEE IF WE HAD A CYL OVER FUELLING AND CUT OUT INJECTORS. PUT IN A TEST FITTING AND RAN THE TRUCK TO CHECK FUEL TRANSFER PRESSURE. FOUND THAT IT WAS WITHIN SPEC. VERIFIED AFTER COOLER AND PRESSURE CHECKED. OK. REMOVED THE INTAKE AND RAN THE TRUCK TO SEE IN THAT MADE ANY SORT OF DIFFERENCE, BUT IT DID NOT. CHECKED THE TURBO AND FOUND IT HAD MORE END PLAY THEN WE WOULD NORMALLY LIKE TO SEE BUT FEEL IT WILL BE OK. PUT A GAUGE IN THE INTAKE AND TOOK THE TRUCK FOR A DRIVE TO SEE WHAT KIND A BOOST IT WAS MAKING. FOUND THERE WAS 24PSI	6	125.00	750.00

Thank you for your business!

PLEASE NOTE: THERE IS A 2.4 % SURCHARGE IF PAYING BY CREDIT CARD.

Subtotal

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Payments/Credits

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		3/25/2020	AT FULL LOAD AND THE ENGINE WAS LEAVING A STEADY STREAM OF BLACK SMOKE. REMOVED THE FUEL AIR FUEL RATIO TUBE AND INSTALLED A FITTING IN THE HOUSING. PRESSURE CHECKED OK. FOUND SMOKE WOULD CLEAR UP IF WE PRESSURIZED AFC AND RELEASED FIRST TIME, THEREFORE THOUGHT IT WAS POSSIBLY GOVERNOR ADJUSTMENTS. BUT WANT TO CONFIRM TIMING AND LOOK AT VALVE SET FIRST. CLEANED UP THE TUBE AND BLEW IT OUT. CLEANED UP TOOK AND WORK AREA. DROVE AGAIN TO ENSURE ENGINE GOVERNOR WAS IN FACT SPRING BOOST INITIALLY TO SET THE AFC.			
	(R) L-6 RILEY	3/27/2020	10171C LOOKED UP SPECS NEEDED TO DO A VALVE SET. INSTALLED THE FUEL AIR MIXTURE TUBE AND	6	125.00	750.00

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		3/27/2020	FOUND SITTING THERE IT DID NOT MAKE A DIFFERENCE, WE WOULD NEED TO GET IT OUT ON THE ROAD. REMOVED THE VALVE COVER AND FOUND A LOT OF SOOT AROUND A COUPLE OF EXHAUST VALVES. REMOVED THE JAKES AND CLEAN UP THE SOOT. FOUND #5 AND #6 WERE STARTING TO DO THE SAME. SET THE VALVES AND INSTALLED THE JAKES AND ADJUSTED. FOUND THE EXHAUST VALVES WERE TIGHT . RAN THE TRUCK AND IT SOUNDED GOOD. REMOVED THE COVER OFF THE SIDED OF THE PUMP AND PINED IT AND CHECKED TIMING. FOUND THE TIMING WAS OK AND THERE WAS A CHANCE WE WERE GOING TO HAVE TO GO INTO THE PUMP. CLEANED UP TOOLS AND WORK AREA.			

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	(R) L-6 RILEY	4/1/2020	10171C INSTALLED THE VALVE COVER AND INTAKE SO WE COULD DRIVE RAN THE TRUCK DOWN THE ROAD AFTER BLOWING OUT THE BOOST TUBE. FOUND THE TRUCK STILL SMOKED BAD. GOT OUT TOOLING TO DO THE ADJUSTMENTS ON THE PUMP AND READ THROUGH HOW THEY WERE DONE. CHECKED THE PIN TIMING OF THE PUMP. IT WAS OUT SLIGHTLY BUT NOT ENOUGH TO CAUSE THE PROBLEM. CLEANED UP TOOLS AND WORK AREA.	6	125.00	750.00
	(R) L-6 RILEY	4/2/2020	10171C SET UP THE INJECTION PUMP TOOLING AND WENT THROUGH THE TESTING AND ADJUSTING WITH MATTI. WE FOUND WE WERE NOT ABLE TO ADJUST GOVERNOR PROPERLY AND THERE IS ISSUES INSIDE THE GOVERNOR. SPOKE WITH KEN . HE MENTIONED	7.5	125.00	937.50

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MACHINE ID	Item	Service Date	Description	Qty	Rate	Amount
		4/2/2020	PREVIOUS ATTEMPT TO REPLACE INJECTORS AND WAS CONCERNED THEY WERE EVEN CORRECT. WE DECIDED THE PUMP WAS BEST TO COME OFF. REMOVED THE COVER OFF THE FRONT OF THE ENGINE. PRESS OFF THE TIMING ADVANCE. UNBOLTED THE PUMP FROM THE OIL DRAIN AND THE FRONT COVER. REMOVED FUEL LINES AND LIFTED THE PUMP OFF. REMOVED THE LINES OFF THE INJECTORS AND PULLED THEM AS WELL TO BE SENT WITH THE PUMP. PLUGGED AND CAPPED ALL THE PORTS ON THE PUMP. CLEANED UP THE PUMP IN THE PARTS WASHER TO BE SENT AWAY. WRAPPED UP THE INJECTORS AND PUT THEM IN A BOX. ORDERED PARTS NEEDED TO INSTALLED THE PUMP WHEN TIME COMES. BROUGHT INJECTION PUMP AND INJECTORS TO TORONTO.			

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	(R) L-6 RILEY	4/22/2020	10171C DROVE TO TORONTO AND PICKED UP PUMP. CLEANED UP THE MOUNTING SURFACE ON THE INJECTION PUMP AND THE ENGINE. INSTALLED NEW SEALS ON THE PUMP AND INSTALLED IT ON THE ENGINE. USING MY TIMING PINS I TIMED THE PUMP TO THE ENGINE. INSTALLED THE TIMING ADVANCE ON THE PUMP SHAFT. TURNED THE ENGINE OVER AND RECHECKED IT AND FOUND IT WAS WHERE IT NEEDED TO BE INSTALLED THE FUEL LINES AND FITTINGS ON THE PUMP. INSTALLED THE AIR FUEL RATIO TUBE AND NEW FUEL FILTER ON THE PUMP. CLEANED THE INJECTOR BORES AND SEALING SURFACES ON THE HEAD. SUCKED OUT THE BRAKE CLEAN FROM EACH CYLINDER. INSTALLED THE INJECTORS IN THE ENGINE AND TORQUED THEM	10	125.00	1,250.00

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		4/22/2020	DOWN. BLEW OUT THE INJECTOR TUBES AND INSTALLED THEM ON THE PUMP AND INJECTORS. PRIMED THE FUEL SYSTEM AND STARTED THE TRUCK. THE TRUCK SEEMED TO RUN GREAT AND SMOKE A LOT LESS. CLEANED UP THE VALVE COVER AND INSTALLED A NEW GASKET. INSTALLED THE VALVE COVER AND INTAKE. TOOK THE TRUCK ON A DRIVE AND IT SEEMED TO SMOKE A LOT LESS THAN BEFORE. CLAMPED UP THE WIRING AND COOLANT TUBES OVER THE ENGINE. REPAIRED THE CLAMP FOR THE AIR FILTER BY WELDING IT. BOLTED AND CLAMPED THE FUEL LINES. CLEANED UP TOOLS AND WORK AREA.			
	COGS 1 - P...	4/3/2020	10171C SEAL 5F-7054	1	2.93	2.93
	COGS 1 - P...	4/3/2020	10171C SEAL O RING 6V-6921	1	4.42	4.42

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	COGS 1 - P...	4/3/2020	10171C WASHER 114-3364	7	2.93	20.51
	COGS 1 - P...	4/3/2020	10171C GASKET 6N-7887	1	78.64	78.64
	COGS 1 - P...	4/3/2020	10171C SEAL O RING 175-7900	1	9.65	9.65
	COGS 1 - P...	4/3/2020	10171C SEAL 2H-3932	1	3.59	3.59
	COGS 1 - P...	4/3/2020	10171C FILTER AS 1R-0750	1	30.58	30.58
	COGS 1 - P...	4/3/2020	10171C SEAL 9L-9098	7	8.24	57.68
	COGS 1 - P...	4/3/2020	10171C SEAL 133-1247	1	155.69	155.69
	COGS 1 - P...	4/3/2020	10171C SEAL-O-RING	1	10.04	10.04
	COGS 1 - P...	4/3/2020	10171C WASHER 9N-0869	1	1.12	1.12
	COGS 1 - P...	4/17/2020	10171C NEW SCROLL GASKET KIT DPE3300SC	1	246.17	246.17
	COGS 1 - P...	4/17/2020	10171C LIFT PUMP REPAIR KIT DPE2240	1	109.70	109.70

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	COGS 1 - P...	4/17/2020	10171C P & B ASSEMBLY UW5929	6	228.00	1,368.00
	COGS 1 - P...	4/17/2020	10171C DIAPHRAGM 6II564	1	16.46	16.46
	COGS 1 - P...	4/17/2020	10171C OIL SEAL 8T2604	2	10.92	21.84
	COGS 1 - P...	4/17/2020	10171C BUSHING 8N5117	6	63.58	381.48
	COGS 1 - P...	4/17/2020	10171C INJECTORS	6	257.40	1,544.40
	COGS 1 - P...	4/17/2020	10171C RACE1338890	2	18.62	37.24
	COGS 1 - P...	4/17/2020	10171C RING 7W197	6	21.84	131.04
	COGS 1 - P...	4/17/2020	10171C RACE ASSY 4N2927	2	12.19	24.38
	COGS 1 - P...	4/17/2020	10171C WEIGHT 7N7264	4	90.62	362.48
	COGS 1 - P...	4/17/2020	10171C PIN 8S5440	4	14.89	59.56
	COGS 1 - P...	4/17/2020	10171C THROTTLE LEVER NP;N	1	108.00	108.00

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	COGS 1 - P...	4/17/2020	10171C SD100 KIT	1	48.00	48.00
	COGS 1 - P...	4/17/2020	10171C DISMANTLE, CLEAN AND REPAIR 1 INJECTION PUMP. SUPPLY PUMP AND GOVERNOR, SET UP AND RECALIBRATING	1	1,344.00	1,344.00
	SHIPPING		SHIPPING		26.00	26.00
	TRUCK SUP...		Truck Supplies % of Labour HST (ON) on sales		221.88 13.00%	221.88 1,412.19

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Subtotal	\$10,862.98
Total	\$12,275.17
Payments/Credits	-\$12,275.17
Balance Due	\$0.00