



www.jtequipcorp.com
888-246-2781

N00-23

RO: 30216
Invoice: 31324
Date: 10/23/2024

Year		Make/Model		Serial Number		
0000		JD 544K		1DW544KZJFE668317		
Fleet/Stock #	PO	Misc Information		Tag	Customer	Telephone
4318				F	01148	403-331-5618

Cond	OpCode	T	Description	Quantity	Lst	Net	Total
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Type: LOADER RO Open Date: 09/20/24 Meter In: 5504
Meter Out: 5506

001 TRAVEL (LETHBRIDGE)
D TRAVEL TO SITE, RETURN TO SHOP

F 09/20/24, NICK, TRAVEL JT BROXBURN FROM KIPP, TRAVEL HOME,
10/16/24, NICK, TRAVEL TO JT BROXBURN FROM ARROWWOOD, TRAVEL TO
LETHBRIDGE, TRAVEL TO JT BROXBURN, TRAVEL TO CARSELAND MEET
RYAN FOR TOOLING, TRAVEL HOME,
10/17/24, NICK, MALCOLM, TRAVEL TO JT BROXBURN FROM ARROWWOOD,
TRAVEL HOME,
10/18/24, NICK TRAVEL TO JT BROXBURN, TRAVEL HOME
** NO TRAVEL CHARGE 19.0HRS **

TL L TRAVEL LABOUR
TRAVEL LABOUR

Subtotal charges this section

002 ENGINE NOISE
D DIGANOSE FOR ENGINE NOISE, CUSTOMER CONCERN OF TOP END ENGINE
NOISE

F 09/20/24, JONATHON, NICK, KEY ON START ENGINE, ENGINE IS
KNOCKING WHEN THROTTLE IS INCREASED, TEST AT VARIOUS ENGINE
SPEEDS, KNOCK IS WORSE AT HIGHER SPEEDS, RECOMMEND CHECKING
VALVE CLEARANCE TO START WITH, REMOVE EXHAUST PIPE, REMOVE AIR
PRECLEANER, REMOVE COOLANT BOTTLE BOLTS, REMOVE HOOD, REMOVE
HARDWARE FROM ROCKER BOX COVER, REMOVE COVER, INSTALL BARRING
TOOL, ROTATE ENGINE TO INDICATOR PIN, INSTALL PIN, CYLINDER 6 IS
ROCKING ON INTAKE AND EXHAUST, PROCEED WITH CHECKING VALVE
CLEARANCE, VALVE LASH IS WAY OUT OF SPECIFICATION, WORST
CLEARANCE IS 0.027 WHEN IT SHOULD BE 0.018
09/23/2024, JON, PREFORM VALVE AJUSTMENTS THAT CORRISPOND WITH
6 @ TDC, BAR ENGINE OVER TO TDC 1 PREFORM REMAINING VALVE
AJUSTMENTS, INSTALL ROCKER COVER LOOSELY, FIRE UP ENGINE, UNIT
WAS TOO LOUD TO CHECK FOR KNOCKING NOISE, INSTALLED AFTER
TREATMENT SYSTEM, STARTED ENGINE AGAIN, KNOCKING NOISE WAS
STILL PRESENT, CHECKED DRIVE COUPLER, WATCHED VALVES WITH
ROCKER COVER OFF AND ENGINE RUNNING, COULD NOT SEE ANY ISSUES,
CYLUBDER 3 AND 4 SEEMED TO HAVE THE MOST BLOW BY, PERFORMED
CYLINDER CUT OUT TESTS ENGINE NOISE DID NOT CHANGE THROUGOUT
TEST STILL INTERMITTENTLY KNOCKING, RULED OUT FUEL SYSTEM, AND
VALVES, NOISE MUST BE A MECHANICAL CONTACT INSIDE OF ENGINE,
CUT ENGINE OILL FILTER APART, WAS FULL OF BRASS AND METAL
SHAVINGS, ADVISED CUSTOMER, WILL QUOTE OUT REBUILD/REPLACEMENT



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	FL		ENGINE OPTIONS				
			L SHOP LABOUR	34.00		140.00	4760.00
			SHOP LABOUR				
			Subtotal charges this section				4760.00

003

ENGINE REPLACEMENT
D REMOVE AND REPLACE LONGBLOCK ASSEMBLY AS PER DIAGNOSIS,
FUNCTION TEST AFTER INSTALL

F 10/3/2024 JON, RECIEVED CONFIRMATION TO GO AHEAD WITH LONG BLOCK REPLACEMENT OPTION, REMOVED AFTERTREATMENT SYSTEM, A/C COMPRESSOR, BRAKE/FAN PUMPS, DRIVE SHAFT, AIR CLEANER, ALL PIPING/HOSES, REMOVED CENTER SUPPORT, MACHINE SIDE WIRING HARNESS, STARTER WIRING, REMOVED ENGINE MOUNTING BOLTS, LEFT ENGINE SITTING IN UNIT FOR THE NIGHT
10/4/2024 JON, SET TRUCK UP TO LIFT ENGINE OUT OF UNIT, SET ENGINE ON BLOCKS, STARTED STRIPPING DOWN LH SIDE OF ENGINE CHECKED OVER FAN DRIVE PUMP AND FAN MOTOR, NOTHING WAS VISIBLE FROM INSPECTION, CHECKED HYD FILTER FOR CONTAMINATES NOTHING PRESENT
10/7/2024 JON, CONTINUED REMOVING COMPONENTS FROM ENGINE, STRIPPED ENGINE DOWN TO THE BLOCK
10/8/2024 JON, PICKED UP LONG BLOCK ENGINE FROM SHIPPER, CHECKED PARTS LIST, MISSING INJECTORS, PUMP, AND WATER PUMP
10/9/2024 JON, PICKED UP MISSING PARTS FROM VENDOR, FOUND OIL PAN GASKET DAMAGED, ORDERED NEW GASKET UNDER WARRANTY, STARTED INSTALLING COMPONENTS ON LONG BLOCK ENGINE, CLEANED ALL PARTS, INSTALLED REAR STRUCTURE, NEEDED SEAL INSTALLATION TOOLS, KEPT GOING WITH INSTALLING OTHER COMPONENTS
10/15/2024 JON, INSTALLED ALL COMPONENTS ON LH SIDE OF ENGINE, NICK IS GOING TO BRING DAMPENER PULLER, SEAL INSATLLERS ETC, TO COMPLETE ENGINE REBUILD
10/16/2024 NICK, INSTALLED REAR MAIN SEAL, PULLED DAMPENER, REMOVED FRONT COVER/CLEANED, INSTALLED ALL PARTS UNDER FRONT COVER, INSTALLED FRONT COVER, INSTALLED FRONT MAIN SEAL, INSTALLED DAMPENER,
10/17/2024 NICK, MALCOLM, INSTALLED INJECTORS, FUEL PUMP, LINES ETC, CHECKED VALVE LASH, INSTALLED EXHAUST MANIFOLD, EGR SYSTEM, OIL PAN, WASHED UNIT, PREPPER FOR PAINT.
10/18/2024 NICK, JON, PAINTED UNIT, FINISHED INSTALLING ENGINE SIDE HARNESSES, LET PAINT DRY, CLEANED UP OLD ENGINE CORE, HOOKED ENGINE TO SERVICE TRUCK CRANE, LIFTED INTO POSITION, STARTED HOOKING ELECTRICAL, HOSES,
10/19/2024 JON, INSTALLED DRIVELINE, CONNECTED THE REST OF HOSES/ ELECTRICAL CONNECTORS, INSTALLED A/C COMPRESSOR, AND FAN



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BELT, INSTALLED ENGINE DIVIDER WALL, INSTALLED EMMISIONS SYSTEM
ONTOP OF ENGINE, HOOKED UP PIPING/WIRING
10/21/2024 JON, INSTALLED COOLANT RESERVOIR, INSTALLED TOP
ENGINE BAY COVER, HOOKED UP RAD/C.A.C/FUEL COOLER, LINES FILLED
ENGINE WITH 10W30 BREAK IN OIL, PRE-FILLED OIL FILTER, CHANGED
FUEL FILTERS, FILLED UNIT WITH NEW COOLANT, WENT OVER FINAL
CHECKS, CHANGED INJECTOR TRIM FILES WITH SA, KOEO CHECKED FOR
CODES, NONE PRESENT, SHUT KEY OFF, UNPLUGGED INJECTOR HARNESS
FROM ROCKER HOUSING, CRANKED ENGINE AND MONTIORED OIL PRESSURE
WITH S/A, TOOK 7 SECONDS TO BUILD OIL PRESSURE, LET STARTER
COOL, CRANKED UNIT AGAIN TO VERIFY OIL PRESSURE PRESENT, ALL
OK, SHUT KEY OFF, PLUGGED INJECTOR HARNESS BACK IN, CLEARED
INJECTOR CODES, STARTED UNIT, ALL OK, OIL PRESSURE OK, COOLANT
LEVEL OK, LET UNIT RUN FOR 1 MIN, SHUT OFF AND CHECKED OIL
LEVEL, TOPPED UP OIL, LOWER RH COOLANT HOSE WAS LEAKING AT RAD,
DRAINED COOLANT DOWN AND FIXED INNER SPRING POSITIONING,
REINSTALLED LINE AND FILLED WITH COOLANT, ALL OK NO LEAKS, TEST
DROVE UNIT AROUND YARD, HAD AN ALTENATOR EXCITATION FAULT COME
UP, VERIFIED UNIT WAS NOT CHARGING, CHECKED WIRING AT ALT,
EVERYTHING WAS CONNECTED, FOUND BLOWN EXCITATION FUSE IN CAB
PANEL, CHANGED 5 AMP FUSE AND TESTED AGAIN, ALL OK, RAN UNIT
AROUND THE YARD FOR 30 MIN TOPPED UP HYD OIL
10/22/24 JON, TESTED UNIT AROUND YARD RAN UP TO OPERATING TEMP,
CHECKED FOR LEAKS, FLUID LEVELS, ALL OK, VERIFIED ENGINE
COOLING FAN WAS OPERATING PROPERLY, UNIT WAS RUNNING WITH NO
ISSUES, INSTALLED ALL REAR DOOR PANNELS ON UNIT, FILLED WASHER
FLUID RESIVOIR, PUT SERVICE STICKER INTO MACHINE, RELEASED UNIT
BACK TO CUSTOMER,

FL	L SHOP LABOR	88.50	140.00	12390.00
	SHOP LABOR			
	P JTZIPTIE ZIP TIE	10.00	2.60	26.00
	P JT51813 SEALANT PU	1.00	7.47	7.47
	P JTSP SOAKER PAD	6.00	1.51	9.06
	P JTCOOLANT BULK COOLA	30.00	4.05	121.50
	P SE502839 LONG BLOCK	1.00	20441.70	20441.70
	EXCHANGE ONLY \$2287.00 CORE - RETURNED 1029 6 MONTH WARRANTY			
	P SE502553 INJ PUMP	1.00	3744.76	3744.76
	CORE \$416 RETURNED 1029			
	P SE502636 WATER PUMP	1.00	353.67	353.67
	CORE \$69 RETURNED 1029			
	P SE502671 INJECTOR	6.00	692.74	4156.44
	CORE \$105 EACH RETURNED 1029 ORDERED ETA 1-2 BUS DAYS			



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			NEEDS TO BE SHIPPED TO LETHBRIDGE				
			P JTJDYL JD YELLOW	4.00		25.98	103.92
			P FREIGHT			288.00	
			PRIMARY FUEL ELEMENT WITH DRAIN				
			P B40063 LUBE SPIN-	1.00		41.04	41.04
			LUBE SPIN-ON				
			P DZ10229 STUD	10.00		56.81	568.10
			P R543352 STUD	2.00		59.75	119.50
			ORDERED 10-15 ETA 1 DAY				
			P FREIGHT			29.57	
			P 3661 FILTER	1.00		67.78	67.78
			P RE541925 FUEL FILTE	1.00		64.47	64.47
			P TY26661 4LBREAK IN	1.00		88.40	88.40
			JUG 10W30 BREAK IN OIL				
			P V2182838 SPRAY GRAY	2.00		34.03	68.06
			SPRAY GRAY PRIMER				
			P ZFNM8SC-10 NUT	12.00		2.25	27.00
			P ZFWMS-10 PLATED FLA	10.00		0.39	3.90
			PLATED FLAT WASHER 10MM				
			P ZCSM10SC-10-110 BOLT	8.00		10.08	80.64
			10X110 MM				
			P P-ENVMV4620 ENVIRON MV	10.00		10.56	105.60
			P JT51002 NEVER SIEZ	1.00		6.00	6.00
			P JTTLADH-B TL ADH	1.00		7.50	7.50
			Subtotal charges this section				42602.51

THANK YOU FOR YOUR BUSINESS

2010 DR 2368.13
5150 DR 47367.51
7050 CR 49730.64

CHARGE 01148 49730.64

TERMS:

ALL CLAIMS AND RETURNED GOODS MUST BE ACCOMPANIED BY THIS INVOICE.
DUE 10th FOLLOWING MONTH. A CHARGE OF 2% PER MONTH (24% PER ANNUM) CHARGED ON
OVERDUE ACCOUNTS & 25% RESTOCKING CHARGE ON RETURNED GOODS.
NO REFUND WITHOUT THIS INVOICE.

WE HEREBY CERTIFY THAT THE FOLLOWING GOODS ARE FOR FARM USE ONLY EXCEPT
FOR EXPRESS WARRANTIES MADE BY THE MANUFACTURERS OF GOODS, THERE ARE
NO WARRANTIES EXPRESS STATUTORY OR IMPLIED.

ALL AMOUNTS ARE IN CAD\$.

Signature: _____

DESC	TOTALS
LABOR	17150.00
PARTS	30212.51
SUBLET	
MISC	
OTHER	
SUBTOTAL	47362.51
GST	2368.13
PST	
CAD\$ TOTAL	49730.64