



Brown's Industrial Sales

Highway 16 W & Range Road 20
 P.O. Box 21092 Lloyd Mall
 Lloydminster, AB T9V 2S1
 780-875-2339 • Fax: 780-875-0262

PLEASE REMIT TO:
 63214 Highway 892 • P.O. Box 1267
 Cold Lake, AB T9M 1P3
 780-826-2399 • Fax: 780-826-2390

Ship To: Same as Below

Invoice To: 60-010

Branch COLD LAKE		
Date 02/11/20	Time 15:42:49 (O)	Page 01
Account No INT01	Phone No	Inv No W06720
Ship Via	Purchase Order	
Tax Exempt ID No.		
		Salesperson 102

SERVICE INVOICE

STK#/FLEET#		HRS	PIN/EIN	WARRANTY DATE	HRS
R0000208	60-010 DOOSAN MT4	8037	DINDMT41H40810445		
60-010	MT41	36867	6688567		

SEGMENT# 1 C CAL01 N/A 01/02/20 01/02/20

Inspection and Check over

COMPLAINT:

Inspect unit, grease and fill out both check sheets, take oil samples.

Oil Sample Results in Multimedia

CORRECTION:

JAN 20/20 C.B, CHECKED UNIT OVER AS I WAS DOING ALL THE REPAIRS.

	LABOR	491.25
50210501	SEGMENT TOTAL==>	491.25

SEGMENT# 2 C CAL01 N/A 01/02/20 01/02/20

Hydraulic Leak

COMPLAINT:

The unit is bypassing hyd oil into reservoir on the LH front fender near the battery, overflowing a tank, level pumped down now, overflows once a week

CORRECTION:

JAN 02/20 C.B, LOOKED IN THE MANUAL AND WAS NOT ABLE TO FIND ANY INFO ON THIS SYSTEM, ALL I KNOW IS IT'S A COOLING SYSTEM FOR THE FRONT BRAKES, PHONED DARREN AND HE WAS ABLE TO DOWNLOAD A BETTER MANUAL ON LINE, SO WE FOUND OUT THERE IS A PUMP ON THE LEFT REAR OF THE ENGINE, IT PUMPS OIL INTO THE TWO FRONT HUBS TO COOL THE BRAKES AND RETURN BACK TO A COOLER AND THEN BACK TO THE TANK IN THE LEFT FRONT FENDER, SO THE ONLY WAY TO BE MAKING OIL IS INSIDE ONE OF THE FRONT HUBS OR FROM THE ENGINE, WILL NEED TO MOVE THE TRUCK INTO THE CRANE BAY SO I CAN JACK UP THE FRONT AND REMOVE THE

CONTINUED ON PAGE 02

TERMS AND CONDITIONS

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FRONT WHEELS TO SEE IF THERE IS SOME WAY TO PRESSURE UP THE COOLING PART OF THE HUB.
 JAN 08/20 C.B, DRAINED THE OIL LEVEL IN THE TANK TO HAFT WAY IN THE SIGHT GLASS. RAN UNIT HOLDING THE BRAKES DOWN, TRIED PUMPING THE BRAKES, TO SEE IF THE OIL LEVEL IN THE TANK WOULD GO UP ANY, DIDN'T MOVE.
 JAN 10/20 C.B, AFTER THE WHEEL WAS REMOVED, REMOVED COVER OVER THE BRAKE LINES, MADE UP A TEST HOSE TO PRESSURE TEST THE BRAKE FOR LEAKAGE INTO THE BRAKE COOLING SYSTEM, USED AND TIRED IN A PORT A POWER PUMP, PUMPED THE BRAKE UP TO THE MAX PRESSURE OF 1450 PSI, WENT DOWN A LITTLE OF THE START BUT HAD TO REMOVE AIR FROM THE BRAKE, THEN LEFT IT AT 1450 PSI.
 JAN 15/20 C.B, AFTER I GOT THE LEFT SIDE BACK TOGETHER I JACKED UP THE RIGHT SIDE WHEEL. REMOVED THE WHEEL WITH THE SKID STEER, REMOVED THE GUARD OVER THE BRAKE LINES, HOOKED UP THE PORT-A-POWER AND PRESSURE TESTED THE BRAKE OVERNIGHT.
 JAN 16/20 C.B, CHECKED THE PRESSURE ON THE BRAKE, STILL AT 145 PSI AFTER BEING PRESSURED UP ALL NIGHT AND MOST OF THE MORNING, REMOVED THE PRESSURE PUMP, REINSTALLED THE BRAKE HOSE AND BLED THE BRAKE, REINSTALLED THE GUARD OVER THE BRAKE LINES, REINSTALLED THE WHEEL, TORQUED AND REINSTALLED THE WHEEL INDICATORS, INSTALLED A TORQUE TAG, CLEANED UP THE JACKS AND STANDS.
 JAN 16/20 C.B, DRAINED THE BRAKE COOLING SYSTEM OIL, TAKES A LONG TIME TO DRAIN THE HOLE SYSTEM, REPLACED THE OIL FILTER, FILLED THE SYSTEM WITH NEW OIL, STARTED UNIT AND RECHECKED OIL LEVEL, TOP UP OIL.
 JAN 22/20 C.B, LIFTED THE BOX AND CAB, REMOVED A BRACKET IN

CONTINUED ON PAGE 03

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THE WAY OF THE PUMP, REMOVED THE LINES GOING TO THE PUMP, REMOVED THE MOUNTING BOLTS, CAN'T GET THE PUMP TO COME OUT OF THE ENGINE FOR SOME REASON.

JAN 23/20 C.B, REMOVED THE PUMP BY REMOVING THE REAR HOUSING, TOOK THE PUMP APART AND RESEALED, DIDN'T SEE ANYTHING WRONG WITH THE OIL SEAL, REINSTALLED THE PUMP, WENT TO TOP UP THE OIL IN THE TANK, NOTICED IT WAS ABOVE THE FULL MARK AND THE OIL IS DARKER AGAIN, PUT BACK IN THE CALL TRAC.

JAN 24/19 C.B, JACKED UP THE LEFT SIDE AND REMOVED THE WHEEL AGAIN, SET UP THE PORT A POWER AGAIN, REMOVED THE BRAKE COOLING LINES, CAP OFF ONE SIDE OF THE HUB AND MADE UP A HOSE AND INSTALLED A GAUGE ON THE OTHER PORT, TRIED PRESSURING UP THE BRAKE AT DIFFERENT PRESSURES TO SEE IF I CAN GET ANY PRESSURE COMING ON THE COOLING SIDE, WAS UNABLE TO SEE ANY PRESSURE CHANGE AT ALL. TALKED TO MARK ABOUT THE ISSUE AGAIN AND I'M THINKING THE ONLY WAY I'M GOING TO FIND OR FIX THIS IS TO TAKE BOTH FRONT HUBS APART, MARK AGREED TO DO THAT, TOOK THE LEFT SIDE HUB APART, OTHER THAN SOME RUBBER PARTS ON THE PISTON SEALS I DIDN'T FIND ANYTHING DAMAGED ON THE SEALS BUT MAYBE IT' ENOUGH TO CAUSE SOME LEAKAGE WHEN THERE IS NO PRESSURE ON THE SYSTEM, MADE UP A PARTS LIST WITH DARREN.

JAN 30/20 C.B, CLEANED ALL THE PARTS AND INSTALLED ALL NEW SEALS AND O-RINGS, RAN INTO A PROBLEM WITH LINING UP THE BRAKE DISC TO INSTALL THE OUTER PART OF THE HUB, LOOKED AROUND WITH ROB FOR SOMETHING THAT WE CAN MAKE A TOOL WITH SO I'M AT A STAND STILL UNTIL ROB IS DONE MAKING THE TOOL.

JAN 31/20 C.B, INSTALLED THE BRAKE TOOL, INSTALLED THE OUTER PART OF THE INNER HUB HOUSING THAT HOUSES THE BRAKES,

CONTINUED ON PAGE 04

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60-010	MT41	36867	6688567		

TORQUED ALL THE BOLTS, HOOKED UP THE PORT A POWER TO THE BRAKE, BLEED THE BRAKE AND APPLIED A LITTLE PRESSURE TO THE BRAKES, THAT RAN INTO A PROBLEM WITH THE TOOL, WAS NOT HOLDING ALL THE DISC STRAIGHT, COULDN'T PULL THE TOOL OUT, MESSED AROUND A BUNCH TRYING TO INSTALL THE OUT HUB PART THAT SLIDES INTO THE DISC, HAD IT ALMOST IN A NUMBER OF TIMES BUT JUST WOULDN'T GO INTO THE LAST DISC, TOOK IT APART A COUPLE MORE TIMES BEFORE I GOT IT TO LINE UP, NOW I'M STUCK NOT BEING ABLE TO TORQUE THE NUT BECAUSE THE 4 TO 1 IS ONE INCH AN THE SOCKET IS 3/4 INCH, WE DON'T HAVE A ADAPTER FROM 1 INCH TO 3/4. CLEANED UP, I THINK ROB IS GOING TO WELD ON A 1 INCH ADAPTER OR I WILL HAVE TO MEET THE MAC GUY IN BONNYVILLE TOMORROW.

FEB 03/20 C.B, FINISHED PUTTING THE LEFT SIDE BACK TOGETHER, FILLED THE BRAKE COOLING OIL IN THE HUB SO IT HAS FLUID ALREADY, INSTALLED THE OUTER PLANETARY HOUSING, LINED UP THE GEARS, FILLED THE PLANETARY OIL WITH 80W90 GEAR OIL, REINSTALLED THE LEFT FRONT WHEEL, REMOVED FROM THE JACK, MOVED THE JACK OVER TO THE RIGHT FRONT, REMOVED THE WHEEL, TOOK THE HUB APART, CLEANED UP.

FEB 04/20 C.B, CLEANED ALL THE PARTS, REMOVED THE BRAKE PISTON, CLEANED, INSTALLED NEW SEALS AND REINSTALLED THE PISTON, INSTALLED THE BRAKE PISTON HOUSING BACK ON THE INNER PART OF THE HUB, CLEANED AND INSPECTED ALL THE BRAKE DISC, INSTALLED THE BRAKES, INSTALLED THE BRAKE DISC TOOL WE MADE, BLEED THE BRAKE AND PRESSURED UP THE PISTON TO HOLD THE DISC IN PLACE, INSTALLED THE OTHER PART OF THE HUB HOUSING, TORQUED THE BEARING NUT TO SPEC AND THE LOCKING BOLTS, CLEANED UP THE OUTER PLANETARY HOUSING BUT NOT INSTALLING IT UNTIL THE MORNING BECAUSE I HAVE THE BRAKE

CONTINUED ON PAGE 05

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		Salesperson 1.02

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60-010	MT41	36867	6688567		

PRESSURED UP CHECKING FOR LEAKS, CLEANED UP.
 FEB 05/20 C.B, INSTALLED THE OUTER PLANETARY HOUSING,
 FILLED WITH GEAR OIL, REMOVED THE PRESSURE OFF THE BRAKE,
 CONNECTED THE BRAKE HOSES, BLEED THE BRAKE, REINSTALLED THE
 GUARD OVER THE BRAKE HOSES, INSTALLED THE WHEEL, TORQUED
 THE WHEELS AND REINSTALLED THE WHEEL INDICATORS, FILLED THE
 TANK IN THE FENDER WITH OIL, STARTED THE UNIT, TOP UP THE
 OIL IN THE TANK, TOP UP THE HYDRAULIC OIL, REMOVED FROM THE
 JACKS, MOVED THE UNIT OUTSIDE, TEST DROVE, MOVED BACK INTO
 THE SHOP, TOP UP THE OIL IN THE TANK AFTER THE UNIT WAS
 SITTING FOR A BIT, CLEANED UP THE BENCHES.
 FEB 06/20 C.B, CHECKED THE OIL LEVEL IN THE TANK, DOESN'T
 LOOK LIKE IT HAS MOVED, CHECKED IN THE SERVICE MANUAL FOR
 SERVICE INFO FOR THIS SYSTEM, NO INFO, TALKED TO DARREN AND
 HE COULDN'T FIND ANYTHING IN THE MT-41 MANUAL BUT DID FIND
 SOMETHING FOR THE DA-40 ROCK TRUCK, MARKED ON THE TANK TO
 CHANGE THE OIL EVERY 2000 HRS AND THE FILTER EVERY 1000
 HRS. STARTED THE UNIT AND WARMED UP, MOVED THE UNIT OUTSIDE
 AND PARKED.

EHC05	ENVIRONMENT HAN	9 T	.05	.45
EHC10	ENVIRONMENT HAN	29 T	.10	2.90
EHC50	ENVIRONMENT HAN	2 T	.50	1.00
FARBV2103B	1/4" BALL VALVE	RETAIL	6.76	
		1 T	5.63	5.63
MTNS727	COUPLING AIR PL	RETAIL	3.42	
		1 T	2.85	2.85
	COUPLING AIR PLUG 1/4 NPT MALE			
MX055398	HYDRAULIC FILTE	RETAIL	74.49	
		1 T	48.42	48.42
	HYDRAULIC FILTER			

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60-010	MT41	36867	6688567		
MX512599	BRAKE HUB SEAL			RETAIL 138.09	
				2 T 89.76	179.52
	BRAKE HUB SEAL RING				
MX514509	FRONT WHEEL SEA			RETAIL 989.69	
				2 T 643.29	1286.58
	FRONT WHEEL SEAL				
MX514526	BRAKE HUB O-RIN			RETAIL 73.96	
				2 T 48.08	96.16
	BRAKE HUB O-RING				
MX516911	BRAKE HUB RING			RETAIL 70.99	
				2 T 46.14	92.28
	BRAKE HUB RING GUIDE				
MX520429	BRAKE HUB O-RIN			RETAIL 19.73	
				4 T 12.82	51.28
	BRAKE HUB O-RING				
MX520431	BRAKE HUB O-RIN			RETAIL 98.63	
				2 T 64.11	128.22
	BRAKE HUB O-RING				
PML24240	BLUE THREADLOCK			RETAIL 36.11	
				1 T 30.09	30.09
	BLUE THREADLOCK LOCTITE				
0102-6-4G	MNPT X FNPT			RETAIL 1.04	
				1 T .87	.87
0103-4-4G	MNPT X MJIC			RETAIL .82	
				1 T .68	.68
0103-4-6G	FITTING			RETAIL .92	
				1 T .77	.77
0103-6-8G	MNPT X MJIC			RETAIL 1.80	
				1 T .90	.90
0202-4-4G	#4 F COUPLING			RETAIL 1.31	

CONTINUED ON PAGE 07

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60-010 MT41	36867	6688567		
			1 T 1.09	1.09
0202-6-6G	F COUPLING	RETAIL	1.64	
			2 T 1.37	2.74
1C943-16-8	FITTING METRIC	RETAIL	18.60	
			1 T 15.50	15.50
10643-6-8	FJIC X CRIMP	RETAIL	12.00	
			2 T 10.00	20.00
	HYDRAULIC FITTING #6 CRIMP - #8 FEMALE J			
	IC			
	43 SERIES			
11C43-16-8	METRIC 90 S FIT	RETAIL	63.06	
			1 T 52.55	52.55
2.180-01091	RING,O	RETAIL	74.73	
			2 T 29.48	58.96
320003294	SOS OIL SAMPLE	RETAIL	30.00	
			1 T 25.00	25.00
	SOS OIL SAMPLE BOTTLE			
401002-00841	RING,O	RETAIL	15.50	
			1 T 10.08	10.08
401003-00398	RING,U	RETAIL	172.72	
			2 T 112.27	224.54
401003-00400	RING,GUIDE	RETAIL	55.32	
			2 T 35.96	71.92
401003-01061	RING;SUPPORT	RETAIL	112.15	
			2 T 72.90	145.80
401003-01063	RING,SUPPORT	RETAIL	143.97	
			2 T 93.58	187.16
401107-01376	SEAL KIT;HYDRAU	RETAIL	527.84	
			1 T 343.10	343.10
401107-01861	SEAL	RETAIL	2478.46	

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500010027	T 32 HYD OIL B	2 T RETAIL	1611.00 4.01	3222.00
550023685	5W30 FORMULA	9 T RETAIL	3.34 5.46	30.06
	FORMULA SAE 5W30 SYNTHETIC BLEND OIL 1 LITRE	28 T	4.55	127.40
550027635	GREASE WINTER	RETAIL	5.63	
	GADUS S2 GREASE V30KC WINTER	1 T	4.69	4.69
550045246	5W30	RETAIL	23.03	
55150GM	O RING LUBE	2 T RETAIL	19.19 50.34	38.38
8345805	600 PSI/KPA GAU	1 T RETAIL	41.95 23.56	41.95
	600 PSI/KPA GAUGE	1 T	19.63	19.63
940301-12344	DOOS80W90 55GAL	RETAIL	7.06	
		20 T	4.59	91.80
			PARTS	6662.95
			LABOR	6763.75
	50210501	SEGMENT TOTAL==>		13426.70

SEGMENT# 3 C CAL01 N/A 01/02/20 01/02/20

Hydraulic Issues

COMPLAINT:

The unit won't steer LH cold in the AM, steering has to be worked back and forth for 15-20 min.

CORRECTION:

CONTINUED ON PAGE 09

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JAN 02/20 C.B, LOOKING UP INFO ON THE DOOSAN SITE FOR THE STEERING SYSTEM, NOT FINDING ANYTHING ABOUT STEERING PROBLEMS FOR A MT 41 ROCK TRUCK, OPENED UP A NEW CALL TRAC BUT I THING DOOSAN IS STILL CLOSED FOR CHRISTMAS,
 JAN 02/20 C.B, LIFTED THE BOX, REMOVED THE CAB PINS, LIFTED THE CAB, REMOVED THE HOSES NEED TO REMOVE THE STEERING VALVE, REMOVED THE WIRING, HAD TO REMOVE THE PANEL BEHIND THE LEFT FRONT WHEEL, LIFTED THE VALVE OUT, CLEANED IT OFF TO HAVE IT READY TO PULL APART.

JAN 03/20 C.B, TOOK THE STEERING VALVE APART, FOUND ONE VALVE THAT HAD MED- HEAVY SCRATCHES AND ONE VALVE WITH LIGHT SCRATCHES, BUT DIDN'T FEEL ANYTHING STICKING OR HANGING UP, TOOK THE PRIORITY VALVE APART THAT BOLTS ON THE TOP OF THE MAIN STEERING VALVE, WENT I WAS REMOVING THE SPOOL VALVE IT DROPPED IN BETWEEN THE LANDS INSIDE THE BORE OF THE VALVE AND I COULDN'T LINE THE VALVE UP SQUARE ENOUGH TO GET IT OUT, TOOK ALOT OF MESSING AROUND TO FINALLY GET THE VALVE OUT, CLEANED IT ALL UP, WENT TO REINSTALL THE SPOOL VALVE AND NOW IT WILL NOT GO BACK INSIDE THE BORE, HAD TO MAKE UP A TOOL TO CLEAN THE INSIDE OF THE BORE WITH FINE SAND PAPER, GOT THE SPOOL BACK INSIDE BUT WORRIED IT MIGHT STICK, WE ORDERED ONE, CLEANED UP THE SPOOLS IN THE MAIN STEERING VALVE AND REINSTALLED BACK IN THE VALVE, TRIED TO FIND NEW O-RINGS BUT WE DON'T HAVE ANYTHING THAT FITS, THE OLD ONES ARE DRY AND HARD, AND THE HOSING WAS LEAKING OIL BEFORE I REMOVED IT FROM THE MACHINE SO WE ORDERED A O-RING KIT, WAS ON THE PHONE WITH FELIX AND DARREN TRYING TO COME UP WITH MIGHT BE CAUSING THE PROBLEM, CLEANED UP.

JAN 06/20 C.B, WAS ON THE CALL TRAC AGAIN WITH FELIX.

CONTINUED ON PAGE 10

TERMS AND CONDITIONS

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X

Authorized By



Brown's Industrial Sales

Highway 16 W & Range Road 20
 P.O. Box 21092 Lloyd Mall
 Lloydminster, AB T9V 2S1
 780-875-2339 • Fax: 780-875-0262

PLEASE REMIT TO:

63214 Highway 892 • P.O. Box 1267
 Cold Lake, AB T9M 1P3
 780-826-2399 • Fax: 780-826-2390

Ship To: Same as Below

Invoice To: 60-010

Branch COLD LAKE		
Date 02/11/20	Time 15:42:49 (O)	Page 10
Account No INT01	Phone No	Inv No W06720
Ship Via	Purchase Order	
Tax Exempt ID No.		
		Salesperson 102

SERVICE INVOICE

STK#/FLEET#		HRS	PIN/EIN	WARRANTY DATE	HRS
R0000208	60-010 DOOSAN MT4	8037	DINDMT41H40810445		
60-010	MT41	36867	6688567		

JAN 07/20 C.B, RESEALED THE VALVE, GOT IT BACK IN THE TRUCK, STARTED THE HOSE INSTALL.

JAN 08/20 C.B, REPLACED ALL THE O-RINGS IN THE HOSES GOING TO THE STEERING VALVE, FINISHED INSTALLING THE HOSES, REINSTALLED THE INNER FENDER, LOWERED THE CAB, STARTED THE UNIT, TESTED THE STEERING, IT IS STEERING STILL.

JAN 09/20 C.B, ORDERED PARTS. WENT OUT IN THE YARD FIRST THING IN THE MORNING AND STARTED THE UNIT, WARMED IT UP AND CHECKED THE STEERING, IT TURNED TO THE RIGHT AND BACK TO THE LEFT THEN WOULDN'T TURN BACK TO THE RIGHT, BUT STILL TO THE LEFT, CHECKED BOX UP AND DOWN, THAT WORKS FINE, I CAN HEAR THE PUMP COMING ON WHEN TRYING TO TURN RIGHT BUT NO STEERING, ONLY THING I DID DIFFERENT WHEN I PUT THE STEERING VALVE BACK TOGETHER WAS SWITCH THE SHOCK AND SUCTION VALVE AROUND FROM SIDE TO SIDE AND NOW THE STEERING PROBLEM HAS CHANGED SIDES, HAVE TO GO ON A FIELD CALL.

JAN 09/20 C.B, STARTED THE UNIT AGAIN WHEN I GOT BACK TO THE SHOP, TRIED THE STEERING AGAIN, STILL NOT STEERING TO THE RIGHT, LIFTED THE BOX UP AND DOWN TRYING TO WARM UP THE HYDRAULIC OIL AT THE SAME TIME TURNING THE STEERING WHEEL TO THE RIGHT, THEN IT HIT THE RIGHT TEMPERATURE AND STARTED STEERING, MOVED THE UNIT INTO THE SHOP, LIFTED THE BOX AND THE CAB, SET UP SOME BLOCKS UNDER THE UNIT.

JAN 10/20 C.B, SET UP BLOCKS AND JACKS, STANDS, LIFTED THE UNIT OFF THE FLOOR, REMOVED THE WHEEL NUTS, CLEARED A PATH TO GET THE SKID STEER TO THE FRONT OF THE UNIT, SET UP TO PULL OFF THE WHEEL, GOT TWO SPOTTERS, STRAPPED THE WHEEL TO THE SKID STEER SO IT WOULDN'T FALL FORWARD, MOVED THE TIRE TO THE CENTER OF THE TRUCK, REMOVED FROM THE SKID STEER, STRAPPED THE TIRE TO THE ROCK TRUCK SO IF WON'T FALL ON

CONTINUED ON PAGE 11

TERMS AND CONDITIONS

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Branch COLD LAKE		
Date 02/11/20	Time 15:42:49 (O)	Page 11
Account No INT01	Phone No	Inv No W06720
Ship Via	Purchase Order	
Tax Exempt ID No.		
		Salesperson 102

SERVICE INVOICE

STK#/FLEET#		HRS	PIN/EIN	WARRANTY DATE	HRS
R0000208	60-010 DOOSAN MT4	8037	DINDMT41H40810445		
60-010	MT41	36867	6688567		

SOMEONE, MOVED THE SKID STEER OUTSIDE.

JAN 10/20 C.B, REMOVED THE INNER FENDER COVER AND STARTED REMOVING HOSES AND WIRING TO REMOVE THE STEERING VALVE AGAIN. REMOVED THE VALVE AND TOOK IT APART AGAIN, THE VALVE THAT HAD THE SCRATCHES ON IT BEFORE HAD SOME MORE MARKS, PUT THE VALVE OUTSIDE, AND THE OTHER TWO VALVE I CHANGED AROUND BEFORE IN THE FREEZER.

JAN 15/20 C.B, INSTALLED THE NEW VALVES IN THE VALVE BLOCK, CLEANED THE REST OF THE VALVES AGAIN, PUT THE BLOCK BACK TOGETHER, INSTALLED THE BLOCK BACK ON THE UNIT, CONNECTED THE HYDRAULIC LINES AND WIRING, REINSTALLED THE INNER FENDER, REINSTALLED THE LEFT FRONT WHEEL, TORQUED THE WHEEL NUTS, CLEANED UP HAD TO GO ON A SERVICE CALL.

JAN 16/20 C.B, LOWERED THE CAB AGAIN AND THE BOX, WARM UP UNIT AND MOVED OUTSIDE, TEST DROVE, THE STEERING DOES FEEL BETTER, NOT AS JERKY AS IT WAS BEFORE, PARKED THE UNIT AT THE BACK DOOR AND PLUGGED IT IN, WILL START IN THE MORNING AGAIN.

JAN 17/20 C.B, STARTED THE UNIT, TESTED THE STEERING, STEERS BOTH WAYS, WARMED UP UNIT AND DROVE IT AROUND THE YARD, SEEMS FINE NOW, MOVED UNIT INTO THE SHOP, ORDERED A SEAL KIT FOR THE BRAKE COOLING PUMP, TOOK THE OLD VALVES APART THAT I REPLACED WITH NEW ONES, STILL DON'T SEE ANY PROBLEM WITH THE VALVES BUT THERE IS SOMETHING.

MX055419	GASKET KIT	RETAIL	55.88	
		1 T	36.33	36.33
MX505383	SEAL KIT	RETAIL	26.76	
		1 T	17.39	17.39
MX521599	VALVE; OLSQ	RETAIL	729.84	
		1 T	474.40	474.40

CONTINUED ON PAGE 12

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Date 02/11/20	Time 15:42:49 (O)	Page 12
Account No INT01	Phone No	Inv No W06720
Ship Via	Purchase Order	
Tax Exempt ID No.		
		Salesperson 102

SERVICE INVOICE

STK#/FLEET#		HRS	PIN/EIN	WARRANTY DATE	HRS
R0000208	60-010 DOOSAN MT4	8037	DINDMT41H40810445		
60-010	MT41	36867	6688567		
	50210501			PARTS	528.12
				LABOR	3267.50
				SEGMENT TOTAL==>	3795.62

SEGMENT# 4 C CAL01 N/A 01/02/20 01/02/20

Sensor

COMPLAINT:

1) Air charge sensor ordered but have not got it yet, has been discontinued.

CORRECTION:

JAN 03/20 C.B, GOT THE NEW SENSOR, DOESN'T COME WITH A PLUG END ON IT TO PLUG INTO THE ECM, HAD TO CUT THE OLD SENSOR HARNESS AND CONNECT TO THE NEW SENSOR, PLUGGED INTO THE ECM, ROUTED THE WIRING AND TIE STRAPPED INPLACE, AND MOUNTED THE SENSOR INTO THE INTAKE, THE COVERS FOR THE HARNESS AND THE ECM ARE IN THE CAB SOMEWHERE BUT CAN'T INSTALL THEM UNTIL I LET THE CAB BACK DOWN.

JAN 08/20 C.B, CHECKED AROUND IN THE CAB FOR THE MOUNTING SCREWS FOR THE COVER THAT GOES OVER THE ECM, GENO SAID THEY WERE IN THE CUP HOLDER, UNIT HAS NO CUP HOLDER, FOUND FOUR SCREWS THAT WILL WORK BUT THE HEADS ARE A LITTLE LARGER AND THEY ARE A LITTLE LONGER, WAS ABLE TO GET THE COVER BACK ON, FINISHED TIE STRAPPING THE WIRING INPLACE, TIGHTEN THE LOOSE DIP STICK TUBE THAT WAS STILL LOOSE FROM REMOVING THE COVER ON THE ECM.

MX055569	KIT, REPAIR	RETAIL	645.03	
		2 T	419.27	838.54
MX511135	PRESSURE SENSOR	1-T	37.86	37.86-
MX511144	SWITCH, PRESSURE	1-T	45.46	45.46-
2149696	CHG AIR SENSOR	RETAIL	700.02	

CONTINUED ON PAGE 13

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		Salesperson 102

SERVICE INVOICE

STK#/FLEET#		HRS	PIN/EIN	WARRANTY DATE	HRS
R0000208	60-010 DOOSAN MT4	8037	DINDMT41H40810445		
60-010	MT41	36867	6688567		
				1 T	514.72
320003294	SOS OIL SAMPLE			RETAIL	30.00
				8 T	25.00
	SOS OIL SAMPLE BOTTLE				
				PARTS	1469.94
				LABOR	300.00
	50210501			SEGMENT TOTAL==>	1769.94

SEGMENT# 5 C CAL01 N/A 01/02/20 01/02/20

Repairs

COMPLAINT:

- 1) Rear lights staying on with the key off (DONE)
- 2) RH rear mud flap torn, cut and reinstall (DONE)
- 3) Dome light not working. (DONE)
- 4) Park brake indicator light is not working. (DONE)
- 5) L/S cab work light is not working. (DONE)
- 6) Hydraulic leak around the engine fan motor. (DONE)
- 7) No dash lights in any of the switches. (DONE)
- 8) take oil samples.
- 9) install hood and cab decals. (DONE)
- 10) install sun visor. (DONE)

CORRECTION:

JAN 02/20 C.B, REPAIRED THE RIGHT SIDE MUD FLAP, REPAIRED THE DOME LIGHT, REPAIRED THE L/S WORK LIGHT, REMOVED THE DASH, CHECKED THE PARK BRAKE INDICATOR LIGHT IS NOT WORKING, SWITCHED THE BULBS AROUND WITH ANOTHER BULB, STILL NOT WORKING, CHECKED THE FUSES, ALL GOOD, WILL HAVE TO GO FURTHER INTO THE PROBLEM, CHECKED THE REAR LIGHTS ARE STAYING ON SOMETIMES, I COULDN'T FIND ANY PROBLEM? THERE IS ONE SWITCH IN THE DASH THAT'S THREE POSITION, AND IN THE

CONTINUED ON PAGE 14

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60-010	MT41	36867	6688567		

CENTER POSITION IT WILL TURN ON ONLY THE REAR TAIL LIGHTS? THEN FULL ON IT TURNS ON THE REAR TAIL LIGHTS AND THE FRONT HEAD LIGHTS, MAYBE THAT SWITCH IS NOT BEING TURN OFF ALL THE WAY? CHECKED THERE ARE NO DASH LIGHTS IN ANY OF THE DASH SWITCHES, FOUND THAT ALL OF THE BULBS IN EVERY SWITCH IS BURNT OUT, REPLACED ALL THE BULBS.

JAN 08/20 C.B, FOUND THE WIRING PROBLEM FOR THE PARK BRAKE LIGHT, REPAIRED THE WIRING UNDER THE CAB.

JAN 08/20 C.B, WENT TO INSTALL THE NEW SUN VISOR, NEEDED TO TRY AND FIND THE OLD PARTS FROM LAST YEAR OR TWO YEARS AGO WHEN THE TRUCK WAS ROLLED, TOOK A LITTLE SEARCHING BUT I WAS ABLE TO FIND ALL THE PARTS NEEDED TO GO WITH THE NEW VISOR, INSTALLED, HAD TO SHIM THE NEW VISOR DOWN SO THE RELEASE LEVER WOULD CLEAR.

JAN 08/20 C.B, CHECKED THE OIL LEAK AROUND THE ENGINE COOLING FAN, HAD TO CLEAN OFF WITH BRAKE CLEANER BECAUSE THE IS SO MUCH OIL AND DIRT AROUND THE FAN AND FRONT OF THE ENGINE, WOULD HAVE LIKE TO WASH IT OFF BUT IT'S TOO COLD OUTSIDE, GOT IT CLEAN ENOUGH TO BE ABLE TO SEE A LEAK, STARTED THE UNIT AND RAN, HEATED THE HYDRAULIC UP AND RECHECKED, TOOK SOMETIME BUT JUST STARTED TO GET DAMP AROUND ONE OF THE STEEL TUBES GOING TO THE FAN, REMOVED THE LINED NEEDED TO REMOVE THE TUBE AND FITTINGS, WE DON'T HAVE ANY SEALS TO FIT THE TUBE, THE FITTINGS HAVE FLAT SEALING RINGS, COULDN'T FIND ANY IN OUR O-RING KITS, USED O-RINGS THAT FIT INSIDE THE GROVE IN THE FITTINGS, REINSTALLED THE FITTINGS AND TUBE, REINSTALLED THE HOSES I REMOVED TO GET AT THE TUBE, STARTED THE UNIT AND RECHECKED FOR LEAKS.

JAN 10/20 C.B, TRIED TO FIGURE OUT HOW THE HOOD DECALS GO ON THE HOOD, FINALLY FOUND A GOOD HOOD SHOT THAT I CAN

CONTINUED ON PAGE 15

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SERVICE INVOICE

STK#/FLEET#		HRS	PIN/EIN	WARRANTY DATE	HRS
R0000208	60-010 DOOSAN MT4	8037	DINDMT41H40810445		
60-010	MT41	36867	6688567		
<p>PROBITY GET THEM CLOSE, INSTALLED THE DECALS ON BOTH SIDE, THE DECALS ARE SO OLD THE BACKING WON'T COME OFF. JAN 13/20 C.B, REMOVED THE DECAL BACKING ON THE RIGHT SIDE HOOD DECAL, CLEANED THE GLUE OFF WITH BRAKE CLEANER, INSTALLED THE WHITE MT-41 DECALS OVER THE GREY DECALS, ALSO THE GLUE BLEED INTO THE OUTSIDE OF THE DECALS, WAS VERY HARD TO REMOVE THE OUTSIDE BACKING, CLEANED THE GLUE OFF THESE DECALS ALSO, TOOK OIL SAMPLES ON THE REAR DIFF, BOTH REAR TANDEM, LEFT FRONT WHEEL HUB, FRONT DIFF, ENGINE OIL, CAN'T DO THE TRANSMISSION AND THE RIGHT FRONT WHEEL HUB UNTIL THE UNIT IS OFF THE JACK, CLEANED UP. JAN 16/20 C.B, CLEANED ALL THE MUD OFF AROUND THE TRANSMISSION SKID PLATE, THEN HAD TO CLEAN ALL THE MUD PACKED AROUND THE BOTTOM OF THE TRANSMISSION, TOOK OIL SAMPLE, REINSTALLED THE SKID PLATE, CLEANED THE MUD FROM AROUND THE DRAIN PLUG FOR THE HYDRAULIC OIL, TOOK A OIL SAMPLE, MOVED UNIT BACK AND TOOK A OIL SAMPLE OF THE RIGHT FRONT HUB.</p>					
HLAH324V	BULB H3 24V 70W		RETAIL	2.46	
			1 T	2.05	2.05
K9000353	TINY LIGHT BULB		RETAIL	25.21	
			8 T	16.39	131.12
	TINY LIGHT BULB DOOSAN				
MX511135	PRESSURE SENSOR		RETAIL	59.45	
			1 T	37.86	37.86
MX511144	SWITCH, PRESSURE		RETAIL	69.94	
			1 T	45.46	45.46
WCH03	LUG NUT INDICAT		RETAIL	1.07	
			11 T	.89	9.79
	LUG NUT INDICATOR 33.0MM (1-5/16")				

CONTINUED ON PAGE 16

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Date 02/11/20	Time 15:42:49 (O)	Page 16
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Ship Via	Purchase Order	
Tax Exempt ID No.		
		Salesperson 102

SERVICE INVOICE

STK#/FLEET#	HRS	PIN/EIN	WARRANTY DATE	HRS
R0000208 60-010 DOOSAN MT4	8037	DINDMT41H40810445		
60-010 MT41	36867	6688567		
515-00012A	DASH LIGHT BULB	RETAIL	.67	
		3 T	.56	1.68
		PARTS		227.96
		LABOR		1703.75
50210501		SEGMENT TOTAL==>		1931.71

***** WORK ORDER TOTALS *****

	INTERNAL	CUSTOMER
PARTS	8888.97	
LABOR	12526.25	
SHOP SUPPLIES	50.00	
INTERNAL TOTAL	21465.22	

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Ship To: SAME AS BELOW

Invoice To: IPL 60-010

Branch		
COLD LAKE		
Date	Time	Page
12/17/18	16:06:57 (O)	01
Account No	Phone No	Inv No
INT01		58232
Ship Via	Purchase Order	
Tax Exempt ID No.		
		Salesperson
		112

SERVICE INVOICE

STK#/FLEET#	HRS	PIN/EIN	WARRANTY DATE	HRS
R0000208	60-010	DOOSAN MT4	6713	DINDMT41H40810445
60-010	MT41			
SEGMENT# 1 C MAC01 N/A	12/30/18	12/17/18		
Changed Engine Oil				
SM IPL 5hrs				
Serviced unit, changed engine oil & filter, fuel filter, air filter, trans filter, filled greaser, changed cylinder-broke. Found hole- welded old one- okay				
EHC200		ENVIRONMENT HAN	2 T	2.00 4.00
MX157068		A/C FILTER	RETAIL	67.44
			2 T	43.84 87.68
MX501387		HYDRAULIC FILTE	RETAIL	244.14
			1 T	160.27 160.27
		HYDRAULIC FILTER		
MX511951		OUTER AIR FILTE	RETAIL	155.26
			1 T	100.92 100.92
		OUTER AIR FILTER		
MX511952		INNER AIR FILTE	RETAIL	104.36
			1 T	67.83 67.83
		OUTER AIR FILTER		
400405-00100		FILTER,OIL	RETAIL	51.82
			1 T	29.32 29.32
400409-00006		TRANS FILTER	RETAIL	82.90
			2 T	53.89 107.78
550036271		OW40 ROTELLA T5	RETAIL	163.93
			2 T	136.61 273.22
		ROTELLA T5 OW40 FULL SYNTHETIC BLEND OIL		
		18.9L PAIL		
			PARTS	831.02
			LABOR	1650.00
50210501			SEGMENT TOTAL==>	2481.02

CONTINUED ON PAGE 02

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Tax Exempt ID No.		
		Salesperson 112

SERVICE INVOICE

STK#/FLEET#	HRS	PIN/EIN	WARRANTY DATE	HRS
R0000208	60-010	DOOSAN MT4	6713	DINDMT41H40810445
60-010	MT41			

SEGMENT# 2 C MAC01 N/A 12/30/18

Coolant Leak

COMPLAINT:

SM IPL 5 hrs

Checked for coolant leak in the cab, checked covers - found some where leaking at the clamp. tightened and put back together. changed cab filters

	LABOR	1650.00
50210501	SEGMENT TOTAL==>	1650.00

***** WORK ORDER TOTALS *****

	INTERNAL	CUSTOMER
PARTS	831.02	
LABOR	3300.00	
SHOP SUPPLIES	50.00	
INTERNAL TOTAL	4181.02	

TERMS AND CONDITIONS

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Authorized By



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Ship To: . SAME AS BELOW

Invoice To: 60-010 IPL

Branch COLD LAKE		
Date 08/30/18	Time 09:39:13 (O)	Page 01
Account No INT01	Phone No	Inv No 098131
Ship Via	Purchase Order	
Tax Exempt ID No.		
		Salesperson 300

SERVICE INVOICE

STK#/FLEET#	HRS	PIN/EIN	WARRANTY DATE	HRS
R0000208	60-010	DOOSAN MT4	3510	DINDMT41H40810445
60-010	MT41			
SEGMENT# 1 C MAC01 N/A 08/19/18 08/30/18				
Replace alternator				
<u>COMPLAINT:</u>				
-Shannon Aug 19/18 2 hrs				
-Checked tire pressure, all low except rear tow on both sides				
-Topped up the rest				
-Notice battery light staying on, checked only charging 24 volts when running.				
-Batteries good				
-Ordered Alternator				
-Shannon Aug 22/18 2 hr				
-Changed bad alternator, tested okay 28.3 volts				
-Changed 2 battery post ends as they were corroded				
MX512456		ALTERNATOR	RETAIL	2720.14
			1 T	1768.09
880HD-BP		1-4/0 BATTERY T	RETAIL	3.17
			2 T	2.64
		1-4/0 BATTERY TERMINAL ENDS HD		
			PARTS	1773.37
			LABOR	660.00
50210501			SEGMENT TOTAL==>	2433.37

***** WORK ORDER TOTALS *****
 INTERNAL CUSTOMER
 PARTS 1773.37
 LABOR 660.00

CONTINUED ON PAGE 02

TERMS AND CONDITIONS

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GARAGE REPAIR ORDER

BON DE REPARATION DE GARAGE

QTY QTE	PART NO. N° DE PIECE	DESCRIPTION	PRICE PRIX
------------	-------------------------	-------------	---------------

1	MX 518456		
2	880HD-8P		

NAME NOM		Shannon		DATE	Aug 19/18
ADDRESS ADRESSE		79L			
MAKE MARQUE	MODEL MODELE	YEAR ANNEE			
SERIAL NO. N° DE SÉRIE	MOTOR NO. N° DE MOTEUR				
ODOMETER N° DE KILOMÈTRES	LICENCE NO. N° D'IMMATRICULATION	TERMS CONDITIONS	PROMISED TEL. UNE FOIS PRÊT	A.M. P.M.	
WRITTEN BY PRÉPARÉ PAR		RES. PHONE TEL. DOM.	BUS. PHONE TEL. BUR.		

OPERATION N° / NO	INSTRUCTIONS	LABOUR MAIN D'ŒUVRE	AMOUNT MONTANT
----------------------	--------------	------------------------	-------------------

21P	Checked tire pressure, all low except rear four both sides, topped up the rest. Noticed Battery light stays on, checked only change 24 volt when empty. Battery's good. order		
	Changed bad AH dist'd o.k. 28.1 volt's.		
	changed two battery post ends as post cracked		

TOTAL PARTS TOTAL DES PIÈCES		TOTAL LABOUR TOTAL DE LA MAIN D'ŒUVRE	
TOTAL ACCESSORIES / ACCESSOIRES		TOTAL SUB CONTRACT	
TOTAL ACCESSORIES TOTAL DES ACCESSOIRES		TOTAL	

QTY QTE	PART NO. N° DE PIÈCE	ACCESSORIES / ACCESSOIRES	PRICE PRIX	GAS, OIL, & GREASE ESSENCE, HUILE ET GRAISSE	QTY QTE	PRICE PRIX
				LITERS GAS LITRES D'ESSENCE		
				LITERS OIL LITRES D'HUILE		
				GREASE GRAISSE		
				TOTAL GAS-OIL-GREASE TOTAL ESSENCE-HUILE-GRAISSE		
				TOTAL		
				TOTAL		

098131



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Invoice To: 60-010

Branch COLD LAKE		
Date 03/08/17	Time 09:59:35 (O)	Page 01
Account No INT01	Phone No	Inv No W03274
Ship Via	Purchase Order	
Tax Exempt ID No.		
		Salesperson 102

SERVICE INVOICE

STK#/FLEET#		HRS	PIN/EIN	WARRANTY DATE	HRS
R0000208	60-010 DOOSAN MT4	5566	810445		
60-010	MT41				

REPAIR# 1 C CAL01 N/A 11/23/16 11/24/16

Travel Time

COMPLAINT:

Unit is located at Christina Lake

CORRECTION:

NOV 24/16 C.B, TRAVEL TO CHRISTINA LAKE, COULDN'T GET ON SITE BECAUSE MY H2S IS EXPIRED.

NOV 25/16 C.B, TRAVELED BACK TO COLD LAKE.

	LABOR	1003.20
50210501	REPAIR TOTAL==>	1003.20

REPAIR# 2 C CAL01 N/A 11/23/16 11/25/16

Hydraulic Issues

CORRECTION:

NOV 24/16 C.B, TRAVELED TO THE UNIT AFTER I GOT ON SITE, WENT OVER WITH GENO WHAT HE CHECKED ALL READY, CHECKED PRESSURES IN A NUMBER OF PLACES, NOT GETTING MUCH PRESSURE AT THE ACCUMULATOR BLOCK, OR THE SOLENOID BLOCK FOR THE EXHAUST BRAKE AND THE TRANSMISSION BRAKE, REMOVED THE PLUG IN THE BACK OF THE HYDRAULIC PUMP, ONLY GETTING 360 PSI AT THE PUMP, WE REMOVED ALL THE VALVES THAT ARE IN THE FAN HYDRAULIC SYSTEM AND TOOK THEM APART, NEVER FOUND ANYTHING IN THE VALVES THAT WAS STUCK OR OPEN, WE WENT AND GOT THE OTHER 41 ROCK TRUCK, CHECKED THE HYDRAULIC PUMP PRESSURE, IT HAS OVER 500 PSI STAND BY PRESSURE AND OVER 3500 PSI AT IT'S PEEK, WE REMOVED THE ACCUMULATOR BLOCK FROM THE OVER 41 AND THIS 41, INSTALLED THE BLOCK ON THE GOOD ROCK TRUCK, I CAN GET 1400 PSI WITH THIS BLOCK ON BUT THAT'S ALL, AND THE SERVICE BRAKE WARNING STAYS ON, WE CLEANED UP FOR THE

CONTINUED ON PAGE 02

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Invoice To: 60-010

Branch COLD LAKE		
Date 03/08/17	Time 09:59:35 (O)	Page 03
Account No INT01	Phone No	Inv No W03274
Ship Via	Purchase Order	
Tax Exempt ID No.		
	Salesperson 102	

SERVICE INVOICE

STK#/FLEET#		HRS	PIN/EIN	WARRANTY DATE	HRS
R0000208	60-010 DOOSAN MT4	5566	810445		
60-010	MT41				

TALKED TO LARRY AND HE SAID TO LEAVE IT FOR NOW AND WE WILL GET BOTH UNITS WASHED, AND WHAT'S TO TRY THE PUMP FROM THE OTHER TRUCK BEFORE WE ORDER ONE, REPLACED THE PARK BRAKE PADS, ONE OF THE PADS IS MISSING THE SPRING THAT KEEPS IT TIGHT, CLEANED UP.

DEC 20/16 C.B, REMOVED THE PRESSURE GAUGE FROM THE PUMP, GOT UNIT READY TO MOVE OUTSIDE.

JAN 02/17 C.B, CLEANED THE MAIN HYDRAULIC PUMP OFF WITH BRAKE CLEANER, STARTED THE UNIT, CAN'T SEE ANY OIL LEAKING FROM AROUND THE TOP OF THE PUMP, CHECKED WITH A MIRROR BECAUSE IT'S REAL HARD TO SEE WHERE IT'S COMING FROM, CAN'T SEE IF IT'S RUNNING DOWN THE BACK SIDE OF THE PUMP, CLEANED OFF THE OIL AGAIN AND WATCHED WITH THE MIRROR UNDER IT, WHERE IT LOOKS LIKE IT'S LEAKING IT CAN ONLY BE A CRACK IN THE PUMP, NEED TO PULL OUT THE PUMP AND MAG FLUX FOR A CRACK, DRAINED THE HYDRAULIC OIL, REMOVED ALL THE HOSES AND PARTS NEEDED TO REMOVE THE MAIN HYDRAULIC PUMP, HAD TO REMOVED THE AUX HYDRAULIC PUMP ALSO (FAN, SERVICE BRAKE PUMP) ONE BOLT WAS 1/4 TURN AT A TIME, REMOVED THE PUMP AND FOUND THAT THERE IS A WEEP HOLE FOR THE PUMP SEAL BEHIND WERE IT WAS LEAKING AROUND THE BOLT, CLEANED UP.

MX512738	SPRING	RETAIL	32.81		
		1	21.43	21.43	
MX514909	VALVE	RETAIL	207.48		
		1	145.28	145.28	
MX524465	BLOCK, VALVE; ACC	RETAIL	1308.41		
		1	850.72	850.72	
MX525487	PARK BRAKE SHOE	RETAIL	50.69		
		1	32.95	32.95	
	PARK BRAKE SHOE LINING				

CONTINUED ON PAGE 04

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Invoice To: 60-010

Branch COLD LAKE		
Date 03/08/17	Time 09:59:35 (O)	Page 04
Account No INT01	Phone No	Inv No W03274
Ship Via	Purchase Order	
Tax Exempt ID No.		
	Salesperson 102	

SERVICE INVOICE

STK#/FLEET#		HRS	PIN/EIN	WARRANTY DATE	HRS
R0000208	60-010 DOOSAN MT4	5566	810445		
60-010	MT41				
MX526886	VALVE;PRESSURE	RETAIL	180.27		
		1	126.23	126.23	
MX528248	GASKET KIT	RETAIL	671.02		
		1	482.84	482.84	
MX532281	GASKET KIT	RETAIL	164.46		
		1	115.15	115.15	
SUBLETL	Mob out unit	1 N	1530.00	1530.00	
1C943-6-4	HYDRAULIC FITTI	RETAIL	14.46		
		2	12.05	24.10	
	HYDRAULIC FITTING FEMALE METRIC SWIVLE #				
	6 FOR #4 HOSE				
	43 SERIES				
		PARTS	1798.70		
		LABOR	6916.80		
		SUBLET	1530.00		
	50210501	REPAIR TOTAL==>	10245.50		

REPAIR# 3 C CAL01 N/A 11/23/16 11/24/16

Leaks

COMPLAINT:

Engine oil leak from LH side of engine.

CORRECTION:

JAN 02/17 C.B, CHECKED THE ENGINE LEAK ON THE LEFT SIDE OF THE ENGINE, LOOKS LIKE IT'S LEAKING OUT THE FRONT ROCKER BOX GASKET, SOME OF THE BOLTS WERE LOOSE SO I TIGHTEN THEM AND RAN UNIT AGAIN, IT'S A LITTLE BETTER BUT STILL LEAKING, THE GASKET MUST BE BROKEN, ORDERED THE PARTS.

FEB 03/17 C.B, REPLACED THE FRONT SEALS AND O-RINGS IN THE MAIN HYDRAULIC PUMP, REINSTALLED THE PUMP BACK ON THE TRANSMISSION, THE BOLTS ARE REAL HARD TO GET AT AND CAN

CONTINUED ON PAGE 05

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Branch COLD LAKE		
Date 03/08/17	Time 09:59:35 (O)	Page 05
Account No INT01	Phone No	Inv No W03274
Ship Via	Purchase Order	
Tax Exempt ID No.		
		Salesperson 102

SERVICE INVOICE

STK#/FLEET#	HRS	PIN/EIN	WARRANTY DATE	HRS
R0000208	60-010	DOOSAN MT4	5566	810445
60-010	MT41			

ONLY GET THE OPEN END OF THE WRENCH ON THEM, GOT THE BOLTS TIGHT, CLEANED UP.
 FEB 06/17 C.B, INSTALLED THE BRAKE PUMP, CLEANED UP AND HEADED TO LLOYD.
 FEB 13/17 C.B, FINISHED INSTALLING HOSES BACK ON THE HYDRAULIC PUMPS AND REINSTALLED THE COVERS ON THE REAR, DRAINED DOWN THE HYDRAULIC TANK SOME MORE, REMOVED THE SUCTION HOSE FROM THE MAIN PUMP ON THE HYDRAULIC TANK, RAN A MAGNET INSIDE THE TANK, WAS GETTING A LOT OF STEEL FILINGS FROM IN THE TANK, REMOVE THE SCREW IN MAGNET THAT IS IN THE TANK, CLEANED THE TANK AS GOOD AS POSSIBLE, TANK HAS A BAFFLE INSIDE SO I CAN ONLY GO SO FAR IN, REINSTALLED THE MAGNET AND THE SUCTION HOSE, FILLED THE HYDRAULIC TANK WITH OIL, BLEED THE TWO HYDRAULIC PUMPS, STARTED THE UNIT, CHECKED FOR LEAKS, LOOKS OK, REINSTALLED THE SKID PLATES AND THE COVER OVER THE HYDRAULIC TANK, REINSTALLED THE CAB BOLTS, CLEANED UP.
 FEB 13/17 C.B, REMOVED THE FAN BELT, REMOVED THE A/C COMPRESSOR AND A NUMBER OF OTHER PARTS TO REMOVED THE FRONT LEFT SIDE COVER ON THE ENGINE, CLEANED OFF THE OLD GASKET, FOUND THAT THERE IS ONE SPOT ON THE BLOCK THAT WAS MACHINED LOWER AND THE GASKET IS NOT SEALING THERE, USED SOME SEALANT TO FIX THE PROBLEM, REINSTALLED THE COVER AND THE PARTS REMOVED TO REMOVE THE COVER, STARTED THE ENGINE AND RECHECKED FOR LEAKS, OK, REMOVED THE SHIELD THAT'S UNDER THE EXHAUST BRAKE, IT IS BROKEN AND ALL CRACKED UP, REPAIRED THE SHIELD AND REINSTALLED, REPLACED THE MISSING BOLTS, REPLACED THE WIPER BLADE, ADJUSTED WIPER ARM BECAUSE THE WIPER WAS HITTING THE BOTTOM OF THE WINDOW, AIR UP THE RIGHT FRONT TIRE.

CONTINUED ON PAGE 06

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Invoice To: 60-010

Branch COLD LAKE		
Date 03/08/17	Time 09:59:35 (O)	Page 06
Account No INT01	Phone No	Inv No W03274
Ship Via	Purchase Order	
Tax Exempt ID No.		
		Salesperson 102

SERVICE INVOICE

STK#/FLEET#		HRS	PIN/EIN	WARRANTY DATE	HRS
R0000208	60-010 DOOSAN MT4	5566	810445		
60-010	MT41				
EHC10	ENVIRONMENT HAN	171	.10	17.10	
GREY-SV-SPRAY	GREY SERIES SPR	RETAIL	17.76		
		1	11.55	11.55	
	GREY SERIES SPRAY PAINT				
MX513506	WIPER BLADE ROC	RETAIL	25.34		
		1	16.46	16.46	
	WIPER BLADE ROCK TRUCK MT				
1374326	COVER GASKET	RETAIL	22.37		
		1	17.21	17.21	
500005764	TELLUS S2 M 32	RETAIL	3.77		
		171	3.14	536.94	
	TELLUS S2 M 32 HYDRAULIC OIL				
	BULK				
5068L-15-18C	HYDRAULIC FILTE	RETAIL	7.79		
		1 N	6.49	6.49	
			PARTS	605.75	
			LABOR	1990.00	
	50210501	REPAIR TOTAL==>		2595.75	

***** WORK ORDER TOTALS *****

	INTERNAL	CUSTOMER
PARTS	2404.45	
LABOR	9910.00	
SUBLET	1530.00	
SHOP SUPPLIES	50.00	
INTERNAL TOTAL	13894.45	

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Branch COLD LAKE		
Date 04/29/19	Time 16:50:19 (O)	Page 01
Account No INT01	Phone No	Inv No W05820
Ship Via	Purchase Order	
Tax Exempt ID No.		
		Salesperson 102

SERVICE INVOICE

STK#/FLEET#		HRS	PIN/EIN	WARRANTY DATE	HRS
R0000208	60-010 DOOSAN MT4	7050	DINDMT41H40810445		
60-010	MT41	7010	6688567		

SEGMENT# 1 C CAL01 N/A 03/18/19 03/18/19

Module Issues

COMPLAINT:

- 1) CT1 module goes into limp mode
- 2) Canbus error code

CORRECTION:

MAR 18/19 C.B, HOOKED UP COMPUTER, LOOKING FOR THE CT2 MODULE THAT WAS SENT UP FROM LLOYD. LEE FOUND THE CT1 MODULE, INSTALLED THE NEW MODULE, NOW IT HAS A CODE ON THE DASH, WDB 3 CODE AND A BRAKE WARNING LIGHT IS ALSO ON, TRACKED DOWN THE WIRING, FOUND THE BRAKE TEMPERATURE SENSOR IS RUBBED ON A HYDRAULIC HOSE, THE WIRE DOESN'T LOOK BROKEN BUT THE INSULATION IS BROKEN, TESTED THE SENSOR FAILS TEST, TESTED THE WIRING GOING BACK TO THE IVC4 MODULE, WIRING TEST GOOD, UNPLUGGED THE IVC4 PLUG TAB IS BROKEN AND THERE'S NOTHING KEEPING THE PLUG FROM COMING LOOSE, REPLACED THE CONNECTOR END WITH A NEW ONE, ORDERED A NEW TEMPERATURE SENSOR, MOVED THE UNIT INTO THE CRANE BAY SO I CAN REMOVE THE HOIST CYLINDER.

APR 22/19 C.B, REPLACED THE BRAKE TEMPERATURE SENSOR THAT THE WIRING WAS RUBBED THROUGH UNDER THE CAB, RECHECKED THE CAN BUS ERROR, STILL SHOWING THE CODE ON THE DASH, GOING TO NEED SOME HELP FROM DOOSAN TO TRACK THIS PROBLEM DOWN, CLEANED UP.

APR 23/19 C.B, HOOKED THE COMPUTER UP TO THE UNIT AND LOGGED ONTO CANPC, IT'S LOOKING FOR THE LEFT FRONT HUB TEMPERATURE SENSOR, IT DOESN'T HAVE ANY FRONT HUB TEMPERATURE SENSORS, IT HAS ONE UNDER THE CAB THAT'S FOR BOTH I THINK, THAT'S THE ONE I REPLACED ALREADY, GOT DARREN

CONTINUED ON PAGE 02

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Invoice To: 60-010

Branch COLD LAKE		
Date 04/29/19	Time 16:50:19 (O)	Page 02
Account No INT01	Phone No	Inv No W05820
Ship Via	Purchase Order	
Tax Exempt ID No.		
		Salesperson 102

SERVICE INVOICE

STK#/FLEET#		HRS	PIN/EIN	WARRANTY DATE	HRS
R0000208	60-010 DOOSAN MT4	7050	DINDMT41H40810445		
60-010	MT41	7010	6688567		
ON TEAM VIEWER, HE TRIED TO CHANGE THE SETTINGS ON THE CT1 MODULE, NEED A PASSWORD, HE FOUND A CALL TRACK THAT HAD THE PASSWORD, CHANGED THE SETTINGS ON THE CT1 TO ONE SENSOR AND ONE AIR, THE CODE WENT AWAY AND THE BRAKE LIGHT WENT OUT, TOOK THE UNIT FOR A DRIVE TO MAKE SURE THE CODE WAS GONE AND TO CHECK THE STEERING ISSUES, IT IS STEERING FINE RIGHT NOW, THE ONLY THING IS THE STEERING WHEEL DOES NOT STOP TURNING WHEN TURNING TO THE LEFT BUT DOES WHEN TURNING TO THE RIGHT, AND TO LEFT SIDE IS THE SIDE HAVING PROBLEMS NOT STEERING WHEN THE WEATHER WAS COLDER, CLEANED UP.					
MX510493	CTI CONNECTOR P			RETAIL	88.96
				1 T	74.13
	CTI CONNECTOR PLUG				
	MT 41				74.13
MX513922	DOOSAN CT1 CONT			RETAIL	449.59
				1 T	374.66
	DOOSAN CT1 CONTROL MODULE				374.66
MX524460	SEAL KIT			RETAIL	282.69
				2 T	180.08
MX526856	CYLINDER, TILT			RETAIL	7389.67
				1 T	4803.29
MX532642	SENSOR			RETAIL	347.86
				1 T	226.11
2153365	PAPER FILTER IN			RETAIL	3.60
				1 T	3.00
	PAPER FILTER INSERTS DOOSAN				
400405-00100	FILTER, OIL			RETAIL	102.73
				1 T	29.32
				PARTS	5870.67
				LABOR	1402.50

CONTINUED ON PAGE 03

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Invoice To: 60-010

Branch COLD LAKE		
Date 04/29/19	Time 16:50:19 (O)	Page 03
Account No INT01	Phone No	Inv No W05820
Ship Via	Purchase Order	
Tax Exempt ID No.		
	Salesperson 102	

SERVICE INVOICE

STK#/FLEET#		HRS	PIN/EIN	WARRANTY DATE	HRS
R0000208	60-010 DOOSAN MT4	7050	DINDMT41H40810445		
60-010	MT41	7010	6688567		
	50210501				
			SEGMENT TOTAL==>		7273.17

SEGMENT# 2 C CAL01 N/A 03/18/19 03/18/19

Leaks

COMPLAINT:

- 1) Box dump cylinder leaking
- 2) Recheck for small coolant leak under rear of cab

CORRECTION:

MAR 18/19 C.B, ORDERED A SEAL KIT FOR THE LIFT CYLINDER.
 MAR 18/19 C.B, REMOVED THE LEFT SIDE LIFT CYLINDER FROM THE UNIT, STARTED TO TRY AND TAKE THE CYLINDER APART, SOMEONE HAS HAD THIS CYLINDER APART BEFORE, THINKING THEY LOCTITE ON THE THREADS, CAN'T GET THE END OF THE CYLINDER APART, CLEANED UP.
 MAR 19/19 C.B, TRIED REMOVING THE THREADED END ON THE ROD SIDE SO I COULD REMOVE THE ROD, CAN'T GET IT TO MOVE KEEPS BRAKING OFF THE BOLT IN THE TOOL WE MADE, HEATED THE BARROW END, FINALLY GOT IT TO MOVE A LITTLE WITH MY AIR HAMMER, WOULD TURN GOOD FOR ABOUT A 1/4 OF A TURN THE BIND UP AGAIN, GOT THE END OFF AFTER A LOT OF WORKING IT, TURNS OUT THERE'S SOME DAMAGE ON THE ROD AND THE CAP THAT GOES INTO THE BORE, GOING TO NEED A NEW CYLINDER, ORDERED. PUT THE CYLINDER BACK TOGETHER INCASE IT NEEDS TO GO OUT FOR REPAIR. REMOVED THE GREASE LINES AND HYDRAULIC LINES GOING TO THE RIGHT SIDE STEER CYLINDER, PRESSED OUT THE PINS, REMOVED THE CYLINDER, WASHED THE CYLINDER OFF WAS COVERED IN GREASE AND DIRT, TOOK THE CYLINDER APART, CLEANED UP.
 MAR 20/19 C.B, REMOVED THE RIGHT REAR BRAKE HOSE, GAVE TO RICK. TESTED THE REAR TANDEM AXLE HOUSING TEMPERATURE SENSORS, SPENT SOME TIME ON THE PHONE WITH MARK ORDERING

CONTINUED ON PAGE 04

TERMS AND CONDITIONS

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X

Authorized By



Brown's Industrial Sales

Highway 16 W & Range Road 20
 P.O. Box 21092 Lloyd Mall
 Lloydminster, AB T9V 2S1
 780-875-2339 • Fax: 780-875-0262

PLEASE REMIT TO:
 63214 Highway 892 • P.O. Box 1267
 Cold Lake, AB T9M 1P3
 780-826-2399 • Fax: 780-826-2390

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Branch COLD LAKE		
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SERVICE INVOICE

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R0000208	60-010 DOOSAN MT4	7050	DINDMT41H40810445		
60-010	MT41	7010	6688567		

THE GASKET ON THE SIDE OF THE ENGINE THAT'S LEAKING COOLANT, ALSO ORDERING THE RIGHT REAR BRAKE HOSE AND THE RIGHT SIDE STEERING CYLINDER PIN PARTS THAT ARE MISSING, WE HAD THE BRAKE HOSE IN STOCK, INSTALLED THE RIGHT REAR BRAKE HOSE, BLEED THE BRAKE, REINSTALLED THE COVERS AND CLAMPS. APR 02/19 C.B, REMOVED THE NEW CYLINDER FROM THE CRATE, PUT THE OLD CYLINDER BACK IN THE CRATE, CHANGED OVER THE PARTS ONTO THE NEW CYLINDER, INSTALLED THE NEW CYLINDER AND PINS, HOOKED UP THE LINES, INSTALLED GREASE NIPPLES IN THE PINS SO I CAN PRE LUBE THE PINS, THE TOP PIN IS LEAKING MORE GREASE OUT THE END OF THE PIN THEN IS GOING INTO THE PIN, I WILL HAVE TO FIX THIS PROBLEM, ALSO THE GREASE LINES NEED SOME REPAIR, HAVE TO GO ON A FIELD CALL, CLEANED UP. APR 03/19 C.B, REPAIRED THE TOP CYLINDER GREASE PROBLEM, INSTALLED THE GREASE LINE, REPAIRED THE GREASE LINE ON THE BOTTOM PIN, CLEANED UP. APR 15/19 C.B, STARTED ON AND OFF THIS CYLINDER A NUMBER OF TIMES, PARTS FOR OTHER JOBS I'M WORKING ON SHOW, CLEANED UP, ONLY GOT SOME OF THE SEALS REPLACED. APR 18/19 C.B, FINISHED PUTTING THE STEERING CYLINDER. APR 22/19 C.B, STARTED ON THE UNIT BUT GOT PULLED OFF AGAIN. APR 22/19 C.B, REINSTALLED THE CYLINDER, DIDN'T LIKE THE WAY THE NEW PIN LOOKED, REMOVED IT, IT IS LONGER THAN THE OLD ONE, TEXTED DARREN, INSTALLED THE OLD PIN FOR NOW, PRE GREASED THE PINS, CONNECTED THE HYDRAULIC HOSES AND GREASE LINES, GOT PULLED OFF THE UNIT AGAIN. APR 22/19 C.B, FINISHED UP ON THE CYLINDER, FILLED THE HYDRAULIC OIL, LOWERED THE BOX, TOP UP THE HYDRAULIC OIL. APR 23/19 C.B, MOVED THE UNIT OUT OF THE WELDING BAY INTO

CONTINUED ON PAGE 05

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Branch COLD LAKE		
Date 04/29/19	Time 16:50:19 (O)	Page 05
Account No INT01	Phone No	Inv No W05820
Ship Via	Purchase Order	
Tax Exempt ID No.		
		Salesperson 102

SERVICE INVOICE

STK#/FLEET#	HRS	PIN/EIN	WARRANTY DATE	HRS
R0000208 60-010 DOOSAN MT4	7050	DINDMT41H40810445		
60-010 MT41	7010	6688567		
<p>THE MAIN SHOP AREA, HAD TO MOVE A BUNCH OF STUFF BE BE ABLE TO BACK UNIT OUT, REMOVED THE BELLY PAN UNDER THE ENGINE, CLEANED OUT SOME PAILS AND DRAINED THE COOLANT, REMOVED THE SIDE COVER ON THE RIGHT SIDE OF THE ENGINE, CLEANED THE OLD GASKET OF THE ENGINE AND COVER, CLEANED THE BUILD UP OF DRIED ON COOLANT ON THE BLOCK, REINSTALLED THE COVER, REFILLED THE COOLANT, RAN THE ENGINE UP TO TEMPERATURE, RECHECKED FOR LEAKS, LOOKS GOOD, REINSTALLED THE BELLY COVER AND CLEANED UP.</p> <p>APR 24/19 C.B, TOP UP THE COOLANT AFTER THE UNIT COOLED OFF, DO A ONCE OVER BEFORE THE UNIT GOT LOADED UP ON THE TRUCK, HAD TO TOP UP THE HYDRAULIC OIL.</p>				
EHC05	ENVIRONMENT HAN	50 T	.05	2.50
MX058279	CONNECTOR	RETAIL	15.20	
		2 T	8.63	17.26
MX451146	GASKET	RETAIL	68.57	
		1 T	23.87	23.87
MX514228	REAR BRAKE HOSE	RETAIL	158.20	
		1 T	102.83	102.83
500007872	REAR BRAKE HOSE FOR MT41 ROCK TRUCK			
	ROTELLA T5 0W40	RETAIL	9.66	
		38 T	8.05	305.90
	ROTELLA T5 0W40 FULL SYNTHETIC BLEND OIL BULK			
500010027	T 32 HYD OIL B	RETAIL	4.69	
		12 T	3.91	46.92
		PARTS		499.28
		LABOR		4157.50
50210501		SEGMENT TOTAL==>		4656.78

CONTINUED ON PAGE 06

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Tax Exempt ID No.		
		Salesperson 102

SERVICE INVOICE

STK#/FLEET#	HRS	PIN/EIN	WARRANTY DATE	HRS
R0000208 60-010 DOOSAN MT4	7050	DINDMT41H40810445		
60-010 MT41	7010	6688567		
SEGMENT# 3 C CAL01 N/A	03/18/19	03/18/19		
Steering Issues				
<u>COMPLAINT:</u>				
No steering LH when cold				
<u>CORRECTION:</u>				
MAR 18/19 C.B, CHECKED STEERING PROBLEM, CAN'T GET ANY PROBLEM TO SHOW UP WITH THE STEERING, THE RIGHT SIDE STEERING CYLINDER IS LEAKING, ORDERED A SEAL KIT FOR BOTH SIDES.				
APR 24/19 C.B, SHOWED ROB MY IDEA TO PULL THE EARS IN ON THE FRAME TO BE ABLE TO REINSTALL THE CAB PINS. INSTALLED THE TURN BUCKLE BRACKETS AND THE TURN BUCKLE, TIGHTEN THE TURN BUCKLE UNTIL THE CAB PINS LINE UP WITHOUT FIGHTING WITH THREE PEOPLE TO LINE UP THE PINS LIKE BEFORE, BOLTED THE CAB INPLACE, CLEANED UP.				
CRB10-32812	TURN BUCKLE	RETAIL	294.65	
		1 T	245.54	245.54
EHC05	ENVIRONMENT HAN	26 T	.05	1.30
MX524460	SEAL KIT	T		7.34
500010027	T 32 HYD OIL B	RETAIL	4.69	
		26 T	3.91	101.66
		PARTS		355.84
		LABOR		236.25
50210501		SEGMENT TOTAL==>		592.09

SEGMENT# 4 C CAL01 N/A 03/18/19 03/18/19
 Service Unit
COMPLAINT:
 Service unit, fill out check sheet, fuel filters not required

CONTINUED ON PAGE 07

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R0000208	60-010 DOOSAN MT4	7050	DINDMT41H40810445		
60-010	MT41	7010	6688567		

CORRECTION:

MAR 18/19 C.B, WENT TO DO A SERVICE ON UNIT, WE DON'T HAVE A OIL FILTER IN STOCK.

MAR 20/19 C.B, REMOVED THE BOTTOM PANEL, DRAINED THE OIL, REPLACED THE OIL FILTER, REMOVED AND SERVICED THE SPINNER, CHECKED THE AIR FILTER, IT'S OK, GREASED WHAT I COULD, SOME OF THE U-JOINTS NEED TO TURN TO GET ON THE NIPPLES, ONE U-JOINT ON THE LEFT FRONT AXLE, ONE CLOSES TO THE DIFF HOUSING. U-JOINT BEHIND THE TRANSMISSION, IS NOT TAKING GREASE.

APR 22/19 C.B, CHECKED THE A/C, IT'S WORKING FINE, FILLED THE GREASER, CHECKED AND CLEANED THE CAB FILTER.

APR 23/19 C.B, ADJUSTED ALL THE TIRE PRESSURES, MOVED THE UNIT TO LINE UP THE DRIVELINE U-JOINT GREASE NIPPLES, MOST OF THEM WOULDN'T TAKE GREASE, REPLACED ALL THE GREASE NIPPLES INCLUDING THE ONE ON THE U-JOINT BEHIND THE TRANSMISSION, NOW ALL OF THEM ARE TAKING GREASE, CLEANED UP.

550027634	GREASE SUMMER	RETAIL	4.26	
		1 T	3.55	3.55
	GADUS S4 GREASE V600AC SUMMER			
		PARTS	3.55	
		LABOR	742.50	
50210501		SEGMENT TOTAL==>	746.05	

SEGMENT# 5 C KOW01 N/A 03/18/19 03/18/19

Cab Pin Brace

COMPLAINT:

1)Cab pin cross brace build and install

CONTINUED ON PAGE 08

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60-010	MT41	7010	6688567		
<u>CORRECTION:</u>					
R.K. APRIL 24/19 MEASURE UP AND WELD UP BOLT IN BRACKETS SO THAT THE CAB PINS WOULD LINE UP. HELP CALVIN INSTALL . STEEL USED 2 FEET OF 3 INCH BY 3/4 INCH THICK FLAT BAR.					
MX534493	BOLT ASSY;STEER		RETAIL	526.12	
			1 T	341.97	341.97
			PARTS		341.97
			LABOR		416.25
50210501			SEGMENT TOTAL==>		758.22

***** WORK ORDER TOTALS *****

	INTERNAL	CUSTOMER
PARTS	7071.31	
LABOR	6955.00	
SHOP SUPPLIES	50.00	
INTERNAL TOTAL	14076.31	

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X

Authorized By _____



BROWN'S ROCK TRUCK INSPECTION



UNIT NUMBER	60-010	INSPECTION DATE	APR 23/19
TECHNICIAN	Calvin	MILEAGE	
HOUR METER	7053	WORK ORDER	5820
P = PASS		S = SUPERVISOR SIGN OFF	
		F = FAIL	
		N/A = NOT APPLICABLE	

A	BODY OVERVIEW	P	S	F	N/A
1	General Appearance - Front*	✓			
2	General Appearance - Rear*	✓			
3	General Appearance - Right*	✓			
4	General Appearance - Left*	✓			

B	COCKPIT	P	S	F	N/A
5	Operator Controls & Switches	✓			
6	Hour Meter	✓			
7	Malfunction Indicator Lamp(s)**	✓			
8	Tach Function	✓			
9	Park Brake Operation	✓			
10	Safety Equipment***	✓			
11	Seat Condition	✓			
12	Seat Belt Condition	✓			
13	Gauge Operation	✓			
14	Cab Heat Performance	✓			°C
15	Air Conditioning Performance	✓			°C
16	2-Way Radio	✓			
17	AM/FM Radio	✓			
18	Cab Lights/Interior Lights	✓			
19	Wiper Operation	✓			
20	Blower Settings (Blend & Mode)	✓			
21	Window/Windshield Locks/Latches	✓			
22	Horn(s)	✓			
23	Cleanliness	✓			
24	Instrument Cluster Lighting	✓			
25	Side View Mirrors Glass & Heat	✓			
26	Rear View Mirror				✓

C	OPERATIONAL CHECKS	P	S	F	N/A
27	Block Heater				✓
28	Webasto				✓
29	Circulating Heater	✓			

C	OPERATIONAL CHECKS	P	S	F	N/A	TECH COMMENTS
30	Charging System	✓				
31	Battery & Cable Condition	✓				
32	Exterior Lighting - Front	✓				
33	Exterior Lighting - Rear	✓				
37	High Idle Box Lift				✓	Seconds
38	Movement Controls	✓				
39	Fill Out Daily Checklist	✓				
40	Positive Air Shutoff	✓				
41	Door Locks & Hood Latch	✓				

D	GENERAL INSPECTION	P	S	F	N/A	TECH COMMENTS
42	Engine Oil †	✓				
43	Final Drive Levels	✓				
44	Hydraulic Oil Level	✓				
45	Coolant Level/Quality (Freeze Point)	✓				
46	Steering Pins	✓				
47	Windshield Washer Level	✓				
48	Grease Unit & Fill Greaser	✓				
49	Engine Mounts	✓				
50	Engine Compartment Leaks	✓				
51	Hydraulic Hose Leaks	✓				
52	Undercarriage Leaks	✓				
53	Pins & Bushing Play	✓				
54	Steer Axle Tire Pressures	✓				60 PSI 60 PSI
55	Front Drive Tire Pressures	✓				60 PSI 60 PSI
56	Rear Drive Tire Pressures	✓				60 PSI 60 PSI
57	Steer Axle Tread Depth	✓				21 plus MM 21 plus MM
58	Front Drive Axle Tread Depth	✓				21 plus MM 21 plus MM
59	Rear Drive Axle Tread Depth	✓				21 plus MM 21 plus MM
60	Differential Fluid Levels	✓				

* Handrails, Stairs, Anti-Slip Pads, Paint, Damaged Panels, Stress Cracks, Glass Condition, Mirrors, Ladders, Etc.
 ** MIL Includes Check Engine Light, Stop Engine Light, Antilock Brakes, Diesel Exhaust Fluid, Tire Pressure Monitoring System, Any Other Dash Indicators and Their Functionality
 *** Safety Equipment Includes: First Aid Kit, Fire Extinguisher, Etc.
 † Next Service Due Sticker - Apply To Top Left Hand Side of Windshield. 250 hr - Lubricate Hinges

TECHNICIAN COMMENTS/RECOMMENDATION

Serviced. SEE list of repairs w.o# 5820.

