



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: 22-014

Branch		
COLD LAKE		*REPRINT*
Date	Time	Page
07/31/17	07:14:45 (B)	01
Account No	Phone No	Inv No
INT01		W03995
Ship Via	Purchase Order	
Tax Exempt ID No.		
		Salesperson
		102

SERVICE INVOICE

STK#/FLEET#		HRS	PIN/EIN	WARRANTY DATE	HRS
000224	22-014 2006 KENWOR	10162	1XKDPB0X46R987300		
22-014	T800B	857458			

SEGMENT# 1 C STO01 N/A 06/12/17 06/12/17

A/C Issues

COMPLAINT:

Blew an A/C line

CORRECTION:

A.S Jun 12/17 - Ordered new A/C line.
 A.S Jun 21/17 - Removed oil and refrigerant from system,
 Removed old A/C line and installed new one, Zip tied and
 wrapped hose in insulation blanket, leak tested system and
 all is good, charged system, put 3 LBS of refrigerant in,
 tested and blows cold.

FIR134A	R134A REFRIGER	RETAIL	5.00	
		3	4.17	12.51
HE23241	HOSE ASSY. SUCT	RETAIL	96.89	
		1 N	74.54	74.54
		PARTS		87.05
		LABOR		340.00
50210501		SEGMENT TOTAL==>		427.05

SEGMENT# 2 C STO01 N/A 06/12/17 06/12/17

ABS Issues

COMPLAINT:

ABS Light on

CORRECTION:

A.S Jun 20/17 - Unplugged and tested/cleaned connections
 for the modulator valves, plugged back in and the blink
 code came up as system OK. Road tested truck and no light
 came on.

LABOR 187.50
 CONTINUED ON PAGE 02

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22-014	T800B	857458			
	50210501			SEGMENT TOTAL==>	187.50

SEGMENT# 3 C STO01 N/A 06/12/17 06/12/17

Tire Issues

COMPLAINT:

- 1) RH center drive tire is bad, put 2 new drive tires on LH rear to match RH rear and put best 2 on RH center drive.
- 2) RH front tire has a big bad chunk taken out of the thread and has to be replaced, put 2 new tires on unit and keep good tire as a spare.

CORRECTION:

- 1) A.S Jun 20/17 - Moved back LH tire to RH middle axle, put two new tires on LH rear axle, torqued to 500 FT.LBS.
- 2) A.S Jun 21/17 - Removed both front tires, peeled rubber off and kept the good one for spare, put new rubber on both fronts and installed back on truck, torqued to 500 FT.LBS.

CBB12	BAL BEADS 12 OZ	RETAIL	15.01	
		2	12.51	25.02
DCAPS	DOME METAL CAP	RETAIL	.18	
		2	.15	.30
TDS	TIRE TAX	4	9.00	36.00
	TIRE DISPOSAL SURCHARGE			
100HA	HI TEMP CORE	RETAIL	.17	
		2	.14	.28
5531859	11R24.5 DRIVE T	RETAIL	525.00	
		2	437.50	875.00
5531990	385/65R22.5	RETAIL	545.63	
		2	454.69	909.38
5903ACU	PLASTIC WHEEL S	RETAIL	5.03	
		2	4.19	8.38

CONTINUED ON PAGE 03

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22-014	T800B	857458			
	PLASTIC WHEEL SPACER				
				PARTS	1854.36
				LABOR	325.00
	50210501			SEGMENT TOTAL==>	2179.36

SEGMENT# 4 C STO01 N/A 06/12/17 06/12/17

Light Issues

COMPLAINT:

There is no center marker lights at the trailer plug, problem is wiring somewhere, plug has been jumped temporarily.

CORRECTION:

A.S Jun 21/17 - Removed grating and electrical plug to chase wires to cab. Cut open a junction and found no faults there, have 12.3V at switch in dash but only 10V at wire for trailer plug. Could not find a corroded wire or connection. I used the clearance light power for the marker light. I zip tied all wires under frame I pulled down and put grating and the electrical connection back in.

	LABOR	787.50
50210501	SEGMENT TOTAL==>	787.50

SEGMENT# 5 C SPI01 N/A 06/12/17 06/12/17

Repairs

COMPLAINT:

- Out on road test found;
- 1) Vibration on acceleration(8.7)
 - 2) Air leak from turbo or CAC(2.0)

CORRECTION:

- 1) A.S Jun 22/17 - Inspected drive line of truck, noticed

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22-014	T800B	857458				
two						
U-joints and the front steady bearing were worn, Removed drive shafts, U-joints and steady bearing, replaced steady bearing and U-joints and put drive shafts back into place, greased all drive shafts.						
2) A.S Jun 22/17 - Hooked up air to test CAC, found air leak on top corner.						
A.S Jun 23/17 - Removed CAC and bench tested which found air leaks at all four corners, front and back. CAC was deemed not usable and replacement is on order. Installed new CAC and seemed ok around yard, needs a road test.						
F31-10351	COOLER CHARGE A		RETAIL	1922.46		
			1 N	1554.50	1554.50	
G384-250	2 1/2 HOSE SILI		RETAIL	1.85		
			8	1.54		12.32
RCD16-834	50/50 ANTIFREEZ		RETAIL	9.72		
			1	8.10		8.10
	50/50 ANTIFREEZE/COOLANT HD RED					
SPL250-3X	U-JOINT		RETAIL	198.96		
			2	165.80	331.60	
	SPL250 SERIES U-JOINT, QUICK DISCONNECT					
TRC8456	GREASE TRC		RETAIL	7.80		
			1	6.50	6.50	
	#880 CROWN AND CHASSIS #2 GREASE TUBE SUMMER					
5003326	HANGER BEARING		RETAIL	114.43		
			2	95.36	190.72	
	HANGER BEARING / STEADY BEARING					
			PARTS	2083.32		20.42
			LABOR	1933.75		
CONTINUED ON PAGE 05						

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22-014	T800B	857458				
10001001	50210501					
SEGMENT TOTAL==>					4017.07	20.42

SEGMENT# 6 C STO01 N/A 06/12/17 06/12/17

Vibration Issues

COMPLAINT:

1) After replacing front steady bearing and U-joint next to it and rear u-joint on front shaft. Unit has a worse vibration than before.

CORRECTION:

A.S Jun 26/17 - Inspected drive line and noticed the intermediate drive shaft between first and middle differential had play in the slip joint and in the diff seals so I removed it, tested and still has vibrations, raised ride height by 2", tested and still has vibrations, noticed front differential twists upwards when starting off, torque arm bushings and mounting bracket are worn and have play.

A.S Jun 27/17 - Removed rear wheels, cleaned mud out of rims and changed one tire that has uneven tread and one that had a bulge in the side wall. Installed and torqued tires to 500 FT.LBS. Tightened bolt in LH torque arm and replaced bolt in RH torque arm. Soldered wires and changed out the weather pack for rear diff lock.

A.S Jul 0/17 - Replaced front diff output seal, replaced middle diff input seal, put new intermediate shaft between the first and middle diffs, topped diffs with 75w/90 synthetic gear oil. Replaced the height leveling valve, set ride height to 10" (from middle of axle to bottom of frame). I rotated the yoke that's on the second steady bearing 180 degrees, waiting for test drive results.

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22-014	T800B	857458			
AS2728	DIFF INPUT SEAL		RETAIL	61.94	
			1	51.62	51.62
AS2729	TRIPLE LIP - SE		RETAIL	67.32	
			1	56.10	56.10
	TRIPLE LIP - SEAL				
KD2205	SUSPENSION VALV		RETAIL	121.90	
			1	101.58	101.58
	SUSPENSION VALVE				
TDS	TIRE TAX		2	9.00	18.00
	TIRE DISPOSAL SURCHARGE				
1469-6B	3/8 X 1/4 90		RETAIL	2.34	
			1	1.95	1.95
170SC55006C	SHORT SHAFT		RETAIL	1449.26	
			1 N	1275.14	1275.14
5007417	RETAINER BOLT		RETAIL	1.48	
			8	1.23	9.84
5140-B	1/4" SPLIT LOOM		RETAIL	.25	
			1	.21	.21
	PER FOOT - BULK				
5531859	11R24.5 DRIVE T		RETAIL	525.00	
			2	437.50	875.00
60827-605B	LONGITUDAL ROD		RETAIL	157.86	
			1 N	131.55	131.55
				PARTS	2520.99
				LABOR	2997.50
50210501			SEGMENT TOTAL==>		5518.49

SEGMENT# 7 C SPI01 N/A 06/12/17 06/12/17
 Suspension Issues
COMPLAINT:

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Front torque arm bracket at diff is worn and needs to be repaired.

CORRECTION:

July 21/17 TH- Cleaned up u-bolt threads and unbolted them on left front drive axle. Unbolted torque rod and removed bracket. Sent to Rob to get repaired.

J.S JULY 25/17 PUT BRACKET BACK ON UNIT, PUT U BOLTS ON, TORQUED THEM TO 450 FT LBS. TIGHTENED BOLTS, PUT TORQUE ROD INTO PLACE, TIGHTENED THE BOLTS.

J.S JULY 26/17 REPLACED R/H SIDE TORQUE ROD ON FRONT DRIVE AXLE. HAD TO CUT ONE BOLT OUT. TIGHTENED UP ALL HARDWARE. HAD

UNIT GO FOR DRIVE STILL HAS VIBRATION.

J.S JULY 27/17 CHECKED DRIVE LINE ANGLES AND PUT THEM IN A CHART FOUND U JOINT AT TRANNY HAD 0 DEGREE WORKING ANGLE. MADE A PLATE FOR THE HANGER BEARING TO BRING IT DOWN. INSTALLED PLATE, RECHECKED ANGLES. THEY WERE GOOD. WENT FOR TEST DRIVE STILL HAS VIBRATION. ROTATED DRIVELINE THAT COMES OUT OF THE TRANNY A 180°. WENT FOR DRIVE STILL VIBRATES. PUT DRIVE SHAFT BACK 180°. DRAINED OIL OUT OF DIFF, CHECKED FILTER FOR POWER DIVIDER. HAD A TINY BIT OF METAL IN FILTER BUT WAS NOTHING TO WORRY ABOUT. PUT PLUGS BACK IN, FILLED, TOPPED UP DIFF. DRAINED, CHECKED TRANSMISSION OIL. NOTHING ON PLUG OR IN TRANSMISSION. PUT OIL BACK IN TRANSMISSION.

J.S JULY 28/17 CHECKED THE DRIVE LINE OUT TOOK IT DOWN, CHECKED THE U JOINTS, HANGER BEARINGS. U JOINT WHERE GOOD. FOUND REAR MOST HANGER BEARING. THE HOLE WAS OB LONGED AND THE RUBBER WAS LOOSE ON THE BEARING. REPLACED HANGER BEARING HAD TO CUT OLD BEARING OFF. PUT NEW HANGER BEARING

CONTINUED ON PAGE 08

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22-014	T800B	857458			
ON INSTALLED DRIVELINE BACK UP INTO PLACE. TIGHTENED ALL HARDWARE.					
				LABOR	1683.75
	50210501			SEGMENT TOTAL==>	1683.75

SEGMENT# 8 C SPI01 N/A	06/12/17	06/12/17			
Oil Leaks					
<u>COMPLAINT:</u>					
Middle drive input seal leaking					
<u>CORRECTION:</u>					
J.S JULY 18/17 TOOK INTERMEDIATE SHAFT DOWN TOOK YOKE OFF FOUND SEAL NOT INSTALLED ALL THE WAY. PUT NEW SEAL, SPEEDY SLEEVE ON PUT YOKE, NUT ON. PUT DRIVE SHAFT UP, TIGHTENED BOLTS.					
AS2728	DIFF INPUT SEAL	RETAIL	60.10		
		1	50.08		50.08
			PARTS		50.08
			LABOR		262.50
	50210501		SEGMENT TOTAL==>		312.58

***** WORK ORDER TOTALS *****		
	INTERNAL	CUSTOMER
PARTS	6595.80	20.42
LABOR	8517.50	
SHOP SUPPLIES	50.00	
INTERNAL TOTAL	15163.30	
CUSTOMER TOTAL		20.42

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