



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

Brown's Industrial Sales

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
03/27/21	06:55:04 (B)	01
Account No	Phone No	Inv No
INT01		W08019
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	12629	1XKDPB0X46R987300		
22-014	T800B	975807			
SEGMENT# 1 C KOW01 N/A		03/15/21	03/15/21		
Ramp Issues					
<u>COMPLAINT:</u>					
One of the ramps was torn off, modify the ramps and reinstall					
<u>CORRECTION:</u>					
R.K. Mar 15/21 Repair the ramp that Larry tore off and take the other side off and cut down as per request. reinstall.					
Steel used 4 feet of 4 inch by 3/8 inch flat bar.					
FB-0375-400-S		FLAT BAR	RETAIL	5.50	
			4 T	2.88	11.52
	3/8" X 4"				
			PARTS		11.52
			LABOR		587.50
	50210501		SEGMENT TOTAL==>		599.02

SEGMENT# 2 C STO01 N/A		03/15/21	03/15/21		
Exhaust Issues					
<u>COMPLAINT:</u>					
Some kind of exhaust leak or engine noise??					
<u>CORRECTION:</u>					
GW Mar 18/21					
Check exhaust and turbo pipes for exhaust leaks.					
Found some soot on the backside of one of the bellows pipes but could not feel or hear a leak.					
It could be leaking under increased pressure from the turbo when under load.					
Found that one of the main 5 " clamps had loosened off and had come apart and could be rattling on the exhaust.					

CONTINUED ON PAGE 02

TERMS AND CONDITIONS

I request the above work to be done and the above materials to be supplied and installed on the following conditions.

I promise to pay the amount due upon completion of the work. I acknowledge the lien of the operator for the value of the work and materials supplied. I authorize you, your agents, or independent contractors to drive my vehicle for the purpose of inspection and repairs. I authorize you to subcontract work as necessary, including releasing the vehicle or parts thereof to third parties. I will be responsible for any and all charges that any third party warranty company fails to pay for.

X

Authorized By



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Replace clamp, check other areas of the manifold and exhaust pipes for issues, no major leaks or breaks found. Leave unit until it could be test driven.

A.S Mar 22/21 - Removed positive air shutdown from intake piping and took for test drive but made no difference. Removed air boots from turbo and manifold, blocked off both ends and added 35 PSI of air to system and had no leaks. A.S Mar 24/21- I removed intake piping, turbo inlet piping and inspected the compressor wheel of each turbo I found the one lower mounting bolt was loose and I could move the turbo slightly on the manifold. I removed mounting hardware off the turbo and removed the primary turbo. I found the gasket was broken in two spots and one stud was broken. I removed old studs and had to drill out and clean up the threads of the broken stud (3 hr delay). I ordered studs, nuts and gaskets. Installed studs into exhaust manifold as per spec.

A.S Mar 25/21 - Installed exhaust manifold seal and clamp. Installed turbo gasket and torqued turbo to spec. Hooked up intake piping and bellows pipe. Took for a test drive and no more noises.

J009607	STEP CLAMP 5"	RETAIL	17.99		
		1 T	13.75		13.75
WLK35775	5" EXHAUST CLAM	RETAIL	8.62		
		1 T	7.28		7.28
	5" EXHAUST CLAMP				
2N2766	CATERPILLAR '34	RETAIL	10.66		
		4 T	8.90		35.60
	CATERPILLAR '3406/C15' (3/8"-16 THREAD)				
	EXHAUST & TURBO NUT LOCK				

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22-014	T800B	975807			
2746851	CATERPILLAR 'C1		RETAIL	23.76	
			1 T	19.80	19.80
	CATERPILLAR 'C15' TURBO MOUNTING KIT				
3139550	STUD - TAPERLOC		RETAIL	16.84	
			4 T	14.03	56.12
	STUD - TAPERLOCK				
3805855	PACKING SEAL		RETAIL	139.25	
			1 T	116.04	116.04
	MANIFOLD CLAMP GASKETS FOR A CAT				
			PARTS		248.59
			LABOR		2375.00
	50210501		SEGMENT TOTAL==>		2623.59

***** WORK ORDER TOTALS *****		
	INTERNAL	CUSTOMER
PARTS	260.11	
LABOR	2962.50	
SHOP SUPPLIES	50.00	
INTERNAL TOTAL	3272.61	

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