JV.

INVOICE

MAY 31,2017

INVOICE #: 57029

BILL TO: 216748 CASS CO ENGINEER SHIP TO:

\* SAME \*

ATLANTIC IA 50022

PHONE: CUST PO#: #29-HPOP.TURBO

Core S/N In Other Ref/VIN CPL INJ Pump Model/Type S/N Out S300G 02A025170053 478046 Equipment ID **ENGINE** MILES/HOURS YR-MAKE..... VEH MODEL..... FREIGHTLINER E#KAL09684 203066

SERVICE DESCRIPTION

IPTION AMOUNT

WHILE ON TEST DRIVE, LEFT REAR DRIVE BRAKES LOCKED UP.
INSPECTED BRAKE SYSTEM: FOUND S-CAM WAS STUCK IN THE S-CAM TUBE
DUE TO LACK OF MAINTENANCE. WHILE REPLACING S-CAM AND S-CAM
TUBE, COULDN'T GET THE SLACK ADJUSTER OFF, SO HAD TO REPLACE IT
AS WELL. REINSTALLED WHEELS AND ADJUSTED REAR AXLE BRAKES AS
NECESSARY. TEST DROVE TRUCK - NO PROBLEMS.

TRUCK #29 IS A 2004 (MFG 10/03) FREIGHTLINER WITH 203,066 MILES;

VIN: 1FVHCYDC64HM87407; ENGINE S/N: KAL09684.

PART	PARTS			LIST	UNIT	TOTAL
NUMBER	DESCRIPTION		QUANTITY	PRICE	PRICE	AMOUNT
2394306	HOSE		1			
212-3706	TUBE ASSY		1			
214-7568	SEAL ORING		3			
228-7089	ORING SEAL		2			
227-5904	SEAL ORING		1			
10R-8899	HIGH PRESS OF	L PUMP	1			
SHIPIN	FRT IN FOR PA	RTS	1			
CLAMP-CT400L	CONSTANT TORG	CLAMP 3-1/	<b>'</b> 1			
ANTIFREEZE, ZXED1	ZEREX EXTENDE	D LIFE.GAL.	2			
483260	PIPE WRAP 2"X	,	1			
478046	TURBO, S300AC	072 REMAN	1			
SERIAL # 02A025170	•		_			
SHIPIN	FRT IN FOR TU	IRBO	1			
03142	EXHAUST STUD	KIT	<u></u>			
205-1332	HOSE ASSY		$\bar{1}$			
2210V7536	BRAKE CAMSHAE	T				
KIT8042	BRAKE REPAIR		1			
40010141	SLACK ADJUSTE		ī			
	22		-			
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MAY 31,2017

INVOICE #: 57029

BILL TO: 216748 CASS CO ENGINEER 31/634

SHIP TO:

\* SAME \*

PHONE:

CUST PO#:/ #29-HPOP, TURBO

Pump Model/Type

S/N Out

-Core S/N In

Other Ref/VIN CPL INJ

S300G Equipment ID 02A025170053 YR-MAKE.....

478046

.... --- /-----

FREIGHTLINER

4

VEH MODEL..... E#KAL09684

ENGINE

MILES/HOURS 203066

TRUCK DIES ANY TIME THEY OPUT A LOAD ON IT - DOESN'T WANT TO GO. AT AN INTERSECTION, TRIES TO DIE; OIL PRESSURE GOES TO ZERO. TRUCK MAY NOT START. THEY HAVE A HARD TIME STARTING. THEY CHANGED FUEL FILTER - NO HELP.

---COUNTY DOESN'T USE THIS MUCH AND IT PLANNING TO SELL.

IIPOP LABOR: 18.0 HR LAPTOP SCAN CHECK-CAT

TURBO LABOR 13.2 BRAKE LABOR: 5.0 HR

TRUCK WOULD NOT START. FOUND BATTEREIES WERE DEAD FROM KEY BEING LEFT ON; CHARGED BATTERIES BUT TRUCK STILL WOULD NOT START. INSPECTED TRUCK - FOUND NO OBVIOUS CAUSE OF NO START. HOOKED UP LAPTOP WITH CAT ET SOFTWARE; FOUND ENGINE WAS NOT BUILDING HIGH PRESSURE OIL. (HPOP) AND FOUND IT WAS BAD. TRUCK STARTED RIGHT UP.

TEST DROVE VEHICLE AND FOUND IT TO BE LOW ON POWER. INSPECTED TRUCK AND FOUND BOOST PRESSURE WAS LOW. INSPECTED INTAKE COMPONENTS, CHARGE AIR COOLER AND HOSES. FOUND NO LEAKS OR BLOCKAGES. TESTED TURBO WASTEGATE - FOUND IT WAS STUCK. REMOVED TURBOCHARGER - HAD TO HEAT ALL THE NUTS AND BOLTS TO REMOVE THE TURBO AS THEY WERE CORRODED DUE TO RUST AND DIFFICULT TO REMOVE. INSTALLED REPLACEMENT TURBO. TEST DROVE - NOW HAD POWER BACK.

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INVOICE

MAY 31,2017

PAID
INVOICE AND 57029

BILL TO: 216748 CASS CO ENGINEER SHIP TO:

\* SAME \*

ATLANTIC IA 50022

PHONE:	CUST PO	:: #29-HPOP,TURBO 		
Pump Model/Type S300G Equipment ID FREIGHTLINER	S/N Out 02A025170053 YR-MAKE4	Core S/N In  VEH MODEL E#KAL09684	Other Ref/VI 478046 ENGINE	IN CPL INJ MILES/HOURS 203066
E85-3299Q6257 SHIPIN 715-2000 8L2779 OIL-CJ4 GREASE-PROMOLY	BRACKET ASSY FRT IN FOR PA GREASE ZERK ORING 15W40 OIL CJA MOLY GREASE I	ARTS 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
PAYMENT UPON RECEIPT			•	··

ACCEPTED BY: X .....

Thank you for your business! We appreciate your trust.