

Service

Invoice

Order No. 5-83982

3/4/2020

Customer No. 328342

Sequence No.

PO #

Ship Method
Counter Sale (None)

Terms
Cash

Truck

Salesperson

Item

Description

Qty

Price

Extended

Transmission

1.00

Transmission

(Work Order 5-153523 Unit: Truck 2005 KENWORTH T2000 (1XKTDB9X45J089672))

Engine

1.00

Engine

(Work Order 5-153523 Unit: Truck 2005 KENWORTH T2000 (1XKTDB9X45J089672))

Received By: _____

Order Notes:

Subtotal
Tax

Total

4,350.84

Payment:

-4350.84

Balance Due

0.00

Our used diesel engines carry an industry leading 180 day limited parts and labor warranty. Ask your salesperson for details!

Service**Work Order:** 5-153523

Date: 3/2/2020

Salesperson:

Mileage: 959,175

Customer Unit Information:

Type: 9000 - Truck

Y/M/M: 2005 KENWORTH T2000

VIN: 1XKTDB9X45J089672

Mileage: 959,175

Transmission

Transmission

Complaint:

CHECK AND ADVISE TRANS ISSUE

Correction:

Tow truck driver removed half of the drive shaft, leaving slip yoke hanging from center carrier. Started engine, build air, trans went into gear and started around building. Trans would not up shift, engine died, trans stuck in gear, would not return to neutral or let starter engage. Hooked up software, read and record fault codes, has very low voltage to TECU. Checked for power at TECU battery connectors, loses voltage when connector terminals are connected to load. Trace issue to batteries. Remove covers, steps and battery box cover, found battery cable ends corroded. Remove all cables, clean all terminals and reassemble. Check operation, does not lose voltage at TECU now. Reassemble removed components, Engine starts and trans goes into gear. Disassembled drive shaft, align correctly and reinstall driveshaft to test drive truck. Trans preforms as required, engine is damaged and will not preform as required, engine will need repaired.

Labor
Shop Fee
EPA Fee

Job Total

771.72

Service

Work Order: 5-153523

Date: 3/2/2020

Salesperson:

Mileage: 959,175

engine

engine

Complaint:

CHECK AND ADVISE ENGINE RUNS POORLY

Correction:

HOOKED UP COMPUTER AND CHECKED FOR FAULTS AND FOUND 1 ACTIVE FAULT FOR J-1939 COMMUNICATION MISSING FROM 1 PARAMETER. LET ENGINE WARM UP TO 170 DEGREES AND DID A CYLINDER CUT-OUT TEST AND FOUND THAT #1 INJECTOR WAS QUESTIONABLE. REMOVED AIR FILTER HOUSING AND REMOVED FRONT VALVE COVER AND CHECKED INJECTOR AND ALL VALVE SPRINGS AND ALL APPEARED FINE. REMOVED INJECTOR HARNESS FROM FRONT OF ROCKER COVER AND FOUND OIL POURING OUT OF HARNESS. CLEANED HARNESS WITH BRAKE CLEAN AND REINSTALLED ALL PARTS EXCEPT AIR FILTER HOUSING AND LOOKED UP TRIM FILES AND FOUND THAT THERE IS NO INJECTOR TRIM FILES LOGGED INTO ECM. RESTARTED ENGINE AND LET WARM TO 170 DEGREES AND DID ANOTHER CYLINDER CUT-OUT TEST WITH SAME RESULTS ON # 1 INJECTOR WAS QUESTIONABLE. HAD QUOTE MADE UP FOR REPAIRS. Remove #1 valve cover, IVA/engine brake housing and rocker arm assembly. Found #1 injector spring broken, remove #1 injector and clean bore. Record numbers of reman injector, lube and install injector. Remove bolts to riser, found 2 bolts broken and needing removed. Riser will not clear remaining IVA/engine brake housings, remove remaining housings, dropped 1 of the 3/8" housing nuts inside engine, Remove remaining rocker arm shafts and search for dropped nut. Start process of removing broken bolts in cylinder head. Finish removing broken bolts from cylinder head. Clean bolt holes and top of block. Remove front and rear internal injector harness's from riser. Steam clean riser, install new front and rear internal injector harness's. Locate 2 used riser bolts in Deman, re-install and torque riser, 25#. Clean and install rocker arm assemblies, torque 80#, check/set all valve lash and injector heights. Clean and re-install IVA/engine brake housings, torque 80#, check/set IVA and engine brake lash. Clean and re-install valve covers. Re-install intake ducting and air cleaner/housing. Hook up CAT ET, change calibration of #1 injector to match reman injector. Start engine and check operation, not vibrating at this time. Performed test drive and preform Q.A.Q.C. , OK at this time, park truck out back.

Parts (Job 276000)

Item	Description	Price	Qty	Amount
MB 5P5678-3	Gasket, Engine Valve Cover (CAT 5P5678-3) (CAT) - SEAL - STOCK, 3 METERS		1	
CAT 3214323	Engine Wiring Harness (CAT 3214323) WIRING HARNESS, JAKE BRAKE		1	
CAT 3214324	Engine Wiring Harness (CAT 3214324) WIRING HARNESS, JAKE BRAKE,INTAKE ACUATOR AND 2 INJ'S		1	
CAT 10R1273	Fuel Injector (CAT 10R1273) REMAN CAT INJECTOR		1	
CAT 10R1273 CORE	Inherent core charge on Fuel Injector (CAT 10R1273) REMAN CAT INJECTOR		1	
CAT 10R1273 CORE	Core exchange credit for Inherent core charge on Fuel Injector (CAT 10R1273) REMAN CAT INJECTOR		-1	

Job Parts Total: 1,163.87

Work Order: 5-153523

Date: 3/2/2020

Salesperson:

Mileage: 959,175

Labor
Shop Fee
EPA Fee

Job Total 3,479.03

Subtotal: \$

Tax: \$

Total: \$ 4350.84

Bill To

Invoice # J15017

Invoice Date 09/17/2019

P.O.# 020257

QTY	DESCRIPTION	UNIT PRICE	AMOUNT
0.45	SLEEPER BLOWER SQUIRREL CAGE REPLACEMENT LABOR CHARGE		
1	BLOWER WHEEL NAVISTAR SINGLE WHEEL (w)		
1	PARTS RUN KCMO		
1	DIAGNOSE SLEEPER FAN VIBRATION		
2.25	ENGINE FAN CLUTCH REPLACEMENT LABOR CHARGE (cp)		
TOTAL			\$362.45 USD

Terms & Conditions

NOTES:

•FAN CLUTCH ASSEMBLY HAS SIGNS OF WEAR.
NEEDS REPLACED

•AUXILIARY BELT HAS SIGNS OF WEAR.
NEEDS REPLACED

•PRIMARY DRIVE BELT HAS SIGNS OF WEAR.
NEEDS REPLACED

#3 AXLE TORQUE ROD BUSHING HAS SIGNS OF WEAR/MISSING.
NEEDS REPLACED

Payment is due upon receipt

Bill To

Invoice #

J14827

Invoice Date

05/27/2018

DESCRIPTION	AMOUNT
Maxi fuse 30 amp X2	
Diagnose no start/no crank Voltage drop test rail sensor Range position sensor Front box control test Battery load test Charge primary/secondary air tanks	
XY shifter replacement Labor charge	
Arctic freeze freon Truck 64052 added 5/15/18	
Subtotal	
Sales tax 8.6%	
TOTAL	\$341.04

Terms & Conditions

PAYMENT DUE AT TIME OF SERVICE

NOTES::

- EXHAUST LEAK UNDER CAB
- FOUND MANY POTENTIAL ELECTRICAL CONNECTION ISSUES



BILL TO	SHIP TO	INVOICE #	J15264
		INVOICE DATE	06/17/2020
		P.O.#	089672
		DUE DATE	06/22/2020

Invoice Total	\$917.55 USD
----------------------	---------------------

QTY	DESCRIPTION	UNIT PRICE	AMOUNT
4.75	LABOR CHARGE		
1	MUFFLER KENWORTH 10"		
1	FORMA CLAMP		
4	MAGNA SHOCK		
2	MAGNA SHOCK		
1	SERVICE TRUCK SUPPLIES		
1	OIL SPIN ON		

TERMS & CONDITIONS

NOTES:

THANKYOU!

