

6:10



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CSI-243994.1_CAL...9e09890ee05.pdf - Read-only

EV21-1



CUSTOMER #:

243994

C REEVES SERVICES LTD.

INVOICE

Peterbilt
CALGARY PETERBILT LTD.

 11660 44th Street S.E. - Calgary, AB T2Z 4A2
 Phone: (403) 236-2650 - Fax: (403) 235-1322
 Toll Free 1-800-332-1296
 Parts Direct: (403) 248-PETE (7383)

PAGE 1

HOME:
BUS:CONT:
CELL:

SERVICE ADVISOR: 29 Rachel Sayer

COLOUR	YEAR	MAKE/MODEL	VIN	LICENSE	ODOMETER IN/OUT	TAG
18	KENWORTH T680	1XKYD49X2JJ992740		1531195/1531214	120885	
IN SVC. DATE	PROD. DATE	WARR. EXP.	PROMISED	PO NO.	CUSTOMER PAYMENT	INV. DATE
04JUL17 DD		02:15 18DEC22		172.00	VISA	17DEC22
R.O. OPENED	READY	OPTIONS	DLR:C038 ENG:79987280 TRN:P1069072			

LINE	OPCODE	TECH	TYPE	HOURS	LIST	NET	TOTAL
A	EH Record	Engine Hrs-Engine	Warranty Claims.		Hrs & FINAL		
	Mileage						
	EH ENGINE HOURS	20578	FINAL MILEAGE	1531214			
	9999	C			0.00	0.00	
PARTS:	0.00	LABOR:	0.00	OTHER:	0.00	TOTAL LINE A:	0.00

B NEED THE NEW ECM FROM PARTS PROGRAMMED AND INSTALLED They would like the old ECM back.
 04-150 PERFORMED DEF DIAGNOSTICS REPLACED DEF IN TANK FILTER
 1135 C
 1145 C

1	085360	SCREEN TANK DEF	14.32	12.89	12.89		
2	F38-6242	FITTING-90 NORMAQUICK S 1/2 S	10.99	9.01	18.02		
2	9210TRP	CLAMP	3.04	2.74	5.48		
7	55-126	SINGLE JUG	19.69	19.69	137.83		
PARTS:	174.22	LABOR:	860.00	OTHER:	0.00	TOTAL LINE B:	1034.22

Customer provided new ECM as per troubleshooting done at another dealership. Connected with Cummins, saved ECM image and saved image as template. Printed off faults and noticed only logged faults are for DEF pressure below normal. Primed DEF system and noticed it took an abnormally long time for DEF system to prime, performed quick DEF pump inlet restriction test and found restriction is way too high. Had foreman call customer to gain some clarity on the situation, customer said that they had been to a couple different dealerships for DEF faults and had ended up replacing various DEF parts, but never changed the in-tank filter. After discussion with the customer, received authorization to change DEF filter in tank before touching the ECM. Removed driver's side step, removed fairing, removed cab side skirt, disconnected DEF lines, removed both coolant lines (both coolant fittings were already severely damaged, replaced both fittings).

OUT	DESCRIPTION	TOTALS
LABOUR AMOUNT		
PARTS AMOUNT		
GAS OIL LUBE		
DEF DEF TANKS		
MISC. CHARGES		
TOTAL CHARGES		
LESS INSURANCE		
G.S.T.		
PLEASE PAY THIS AMOUNT		

CUSTOMER COPY

CUSTOMER #:

243994

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Peterbilt
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PAGE 2

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SERVICE ADVISOR: 29 Rachel Sayer

COLOUR	YEAR	MAKE/MODEL	VIN	LICENSE	ODOMETER IN/OUT	TAG
18	KENWORTH T680	1XKYD49X2JJ992740		1531195/1531214	120885	
IN SVC. DATE	PROD. DATE	WARR. EXP.	PROMISED	PO NO.	CUSTOMER PAYMENT	INV. DATE
04JUL17 DD		02:15 18DEC22		172.00	VISA	17DEC22
R.O. OPENED	READY	OPTIONS	DLR:C038 ENG:79987280 TRN:P1069072			

LINE	OPCODE	TECH	TYPE	HOURS	LIST	NET	TOTAL

unplugged DEF quality sensor, removed tank straps and lowered tank to

6:10



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After restriction test and found restriction is way too high, had foreman call customer to gain some clarity on the situation, customer said that they had been to a couple different dealerships for DEF faults and had ended up replacing various DEF parts, but never changed the in-tank filter. After discussion with the customer, received authorization to change DEF filter in tank before touching the ECM. Removed driver's side step, removed fairing, removed cab side skirt, disconnected DEF lines, removed both coolant lines (both coolant fittings were already severely damaged, replaced both fittings).

OUT	DESCRIPTION	TOTALS
LABOUR AMOUNT		
PARTS AMOUNT		
GAS OIL LUBE		
SUBLET AMOUNT		
MISC. CHARGES		
TOTAL CHARGES		
LESS INSURANCE		
GST		
PLEASE PAY THIS AMOUNT		



PETERBILT RED DEER
27 Burnt Lake Crescent
Red Deer County, AB T4S 2L4
Phone: (403) 342-5100
Fax: (403) 342-5103
Toll Free: 1-877-348-5100

PETERBILT LETHBRIDGE
4110 - 18th Avenue North
Lethbridge, AB T1H 6N7
Phone: (403) 328-0500
Fax: (403) 328-0225
Toll Free: 1-866-777-3112

PETERBILT MEDICINE HAT
2250 South Highway Dr SE
Red Deer, AB T0J 2P0
Phone: (403) 326-4460
Fax: (403) 326-4460
Toll Free: 1-844-528-4460

CUSTOMER COPY

CUSTOMER #:

243994

C REEVES SERVICES LTD.

INVOICE



CALGARY PETERBILT LTD.

11550 44th Street S.E. - Calgary, AB T2Z 4A2
Phone: (403) 235-2550 - Fax: (403) 235-1322
Toll Free: 1-800-332-1296
Parts Dept: (403) 248-PLTE (7383)

PAGE 2

HOME:

CONT:

BUS:

CELL:

SERVICE ADVISOR: 29 Rachel Sayer

COLOUR	YEAR	MAKE/MODEL	VIN	LICENSE	ODOMETER IN/OUT	TAG
	18	KENWORTH T680	1XKYD49X2JJ992740		1531195/1531214	20885
IN SVC. DATE	PROD. DATE	WARR. EXP.	PROMISED	PO NO.	PAYMENT	INV. DATE
04JUL17 DD			02:15 18DEC22		172.00 VISA	17DEC22
R.O. OPENED	READY	OPTIONS	DLR:C038 ENG:79987280 TRN:P1069072			
14:29 16DEC22	11:22 17DEC22					
LINE	OPCODE	TECH	TYPE	HOURS	LIST	NET TOTAL

unplugged DEF quality sensor, removed tank straps and lowered tank to ground. Dumped tank out, flushed tank, removed coolant/DEF loop and found filter extremely plugged and collapsed. Changed filter, re-installed coolant/DEF loop, lifted tank back into truck, attached all coolant and DEF lines, secured tank, plugged in DEF quality sensor, filled tank with DEF, re-installed fairing, step and cab side skirt. Hooked up with Cummins again, primed DEF system and now DEF system primes very quickly as it should. Pulled unit out, started regen to ensure no DEF faults come back. Pulled unit back inside and parked for road test, should road test before returning to customer. Took unit for road test. No warning lights from engine came on during road test. Engine has Normal power and operation. Everything ok at this time.

ESTIMATE: 0.00

17DEC22 10:50 SA: 29

CONTACT:

ESTIMATE: 430.00

16DEC22 14:29 SA: 29

CONTACT:

Technology Fee

EH

*** WORKMANSHIP WARRANTY 90 DAYS FROM INVOICE
DATE OR 32000 KM WHICHEVER OCCURS FIRST ***

NOTE: AS A MAINTENANCE REQUIREMENT, CUSTOMERS
MUST RETORQUE ALL WHEEL NUTS 100-150KM AFTER
WHEELS HAVE BEEN REINSTALLED.

GST

(#: R100731918)

55.58

OUT	DESCRIPTION	TOTALS
LABOUR AMOUNT		860.00
PARTS AMOUNT		174.22
GAS OIL LUBE		0.00
SUBLET AMOUNT		0.00
MISC. CHARGES		77.40
TOTAL CHARGES		1111.62
LESS INSURANCE		0.00
GST		55.58
PLEASE PAY THIS AMOUNT		1167.20



PETERBILT RED DEER
27 Burnt Lake Crescent
Red Deer County, AB T4S 2L4
Phone: (403) 342-5100
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CUSTOMER COPY

6:11



26%

FINAL INVOICE.pdf


**KENWORTH
SALES™**

6420 E Broadway Ave
Spokane Valley, WA 99212

PH: (509) 534-2643
www.kenworthsalesco.com

Invoice: 016W3238
Date / Hour: 12/13/2022 8:17:19AM
Repair Order: 3238
Customer: 1001
Branch: SPOKANE
Total Invoice: \$ 1,667.47
Cash
Page 1 of 2

Bill To: YRC O/O
WA

Ship To: YRC O/O
WA

Customer P/O: Add User: jruenchl Open Date: 12/07/2022 Completion Date: 12/12/2022 Salesperson:

Unit Number: 159324 Model Year: 2023 Make/Model: Kenworth T680
Type: Tractor VIN: 1XKYD49X2JJ992740 Meter: 1530459 Miles
In-Service Date: 07/04/2017

Task: 1 46-01 Check Engine Light On Department: Service
Complaint: Diagnose Check Engine Light On - CHECK AND ADVISE - CEL - SCR FAULTS - NEW DEF PUMP, DOSER, LINES - UNIT IN
DEGRADE - TAG 460

Correction: BROUGHT UNIT INTO THE SHOP AND HOOKED UP WITH CUMMINS INSITE. FOUND ACTIVE FC 6485 FOR DEF PUMP DRIVE PERCENTAGE DATA ERRATIC, INTERMITTENT OR INCORRECT AND INACTIVE FC 3674 FOR DEF PRESSURE DATA VALID BUT BELOW OPERATING RANGE SEVERE LEVEL. INSPECTED THE UNIT AND CONFIRMED PER THE RO THAT THE DEF PUMP, LINES AND DOSING VALVE ALL LOOK TO BE BRAND NEW. LOOKED OVER HARNESSES FOR ANY OBVIOUS RUBBING ISSUE. DID NOT FIND ANY OBVIOUS ISSUES AT THIS TIME. PER QCSC FC 3674 IS TO BE 1/3 FIRST. CREATED EDS CASE # DSCNR2243 AND 1/3 FC 3674. STEP 1 - CHECK FOR PRIMARY FC'S. NONE OF THE LISTED FC'S ARE PRESENT AT THIS TIME. STEP 2 - TSS VOLTAGE DROP TEST. PER THE TEST JUMPER RELAY BASE FOR THE DEF PUMP AND PERFORMED THE VOLTAGE DROP TEST ACROSS PINS 2 AND 4 AT THE DEF PUMP HARNESS CONNECTOR J970. THE VOLTAGE DROP WAS IN SPEC AT APPROX. 0.23V. STEP 3 - INSPECTED THE DEF SYSTEM FOR ANY ISSUES. LOOKED OVER THE SYSTEM AND FOUND NO OBVIOUS ISSUES AT THIS TIME. STEP 4 - CHECK THE DEF FLUID FOR CONTAMINATION AND CONCENTRATION. THE DEF CONCENTRATION IS IN SPEC. AT 32.5%. PULLED LH STEP, FAIRING AND CAB SKIRT TO GAIN ACCESS TO THE TOP OF THE DEF TANK. PULLED THE DEF TANK COMBO SENSOR UP AND LOCKED INTO THE TANK. DID NOT SEE ANY OBVIOUS ISSUES OR DEBRIS IN THE TANK. STEP 5 - DEF DOSING VALVE PRESSURE SENSOR MAY BE MALFUNCTIONING. REMOVED THE DEF PRESSURE PIPE FROM THE DEF DOSING VALVE WITH KEOO THE SENSOR IS READING IN SPEC. AT APPROX 3 PSI. STEP 6 - DEF DOSING VALVE PRESSURE CHECK. USED INSITE TO PERFORM THE DEF SYSTEM LEAK TEST. SYSTEM PRIMES AND HOLDS PRESSURE AT APPROX. 125-130 PSI. IN SPEC. STEP 7 - DEF PUMP VOLTAGE DROP TEST. PER THE TSS PREVIOUSLY VOLTAGE DROP IS IN SPEC. AT 0.23V. HOOKED TEST LIGHT TO THE CIRCUIT AND CIRCUITS CARRY A LOAD. SHOOK HARNESS DOWN AND COULD NOT GET THE TEST LIGHT TO DROP OUT. STEP 8 - DEF PUMP SUCTION TEST. HOOKED UP TEST TOOLING IN LINE OF SUCTION PIPE AND HOOKED UP RESTRICTION GAUGE. PUMP SUCTION WAS IN SPEC. AT -12 INHG. SPEC WAS MIN -JINH. STEP 9 - DEF PUMP INTAKE RESTRICTION. HOOKED UP TOOLING AND PERFORMED THE TEST EPR PROCEDURES. RESTRICTION WAS IN SPEC. AT -5 INHG. SPEC. WAS MAX -10 INHG. STEP 10 - DEF PRESSURE LINE RESTRICTION. HOOKED UP TOOLING AND PERFORMED THE TEST PER THE TEST PROCEDURES. PRESSURES WERE IN SPEC. AT 120-130 PSI. STEP 11 - DEF PUMP OVER RIDE TEST. PERFORMED TEST. WAS GOOD. STEP 12 - CHECK THE ECM CAL FOR ANY REVISIONS ADDRESSING FC. THE ECM IS CURRENTLY AT THE LATEST REVISION OF HD1200.17 AND NONE OF THE REVISION ADDRESS THE FC'S. STEP 13 - IF ALL OTHER STEPS HAVE BEEN COMPLETED THEN A DEF DOSING VALVE IS MALFUNCTIONING. WENT TO CLEAR ALL FC'S TO RUN A RECORDED SCR SYSTEM TEST. NOTICED FC 6485 WILL NOT CLEAR AND IS ALWAYS ACTIVE. COMPLETED THE EDS CASE AND ATTACHED THE ECM IMAGE TO THE EDS CASE. ESCALATED THE CASE TO CUMMINS. CALLED CUMMINS AND WENT OVER THE TSS. WAS SENT TO LEVEL 2 DIAG. WAS ADVISED TO RUN THE DEF DOSER OUTPUT TEST AND IF IT PASSED, TO TRY RECALIBRATING THE ECM TO GET THE FC 6485 TO GO INACTIVE. UNROTTED AND REMOVED THE DEF INJECTOR VALVE FROM THE MIXER HOUSING. PERFORMED THE TEST 3 TIMES. ALL 3 TIMES THE SPRAY PATTERN WAS GOOD AND THE OUTPUT WAS IN SPEC. AT APPROX. 200-300 ML. UPDATED THE EDS CASE. THEN PROCEEDED TO RE-CAL THE ECM. PERFORMED THE RE-CAL PER PROCEDURE. FC 6485 WENT INACTIVE. CALLED BACK INTO CUMMINS THEY ADVISED TO PERFORM A LONG TEST DRIVE WITH AN ALL PARAMETER DATA LOG. RE-INSTALLED ALL STEP AND FAIRING ASSEMBLIES. PLACED THE UNIT IN A SCR SYSTEM TEST WITH INSITE. UNIT COMPLETED TEST WITH NO ISSUES OR FAULTS RETURNING. TOOK UNIT OUT FOR LONG TEST DRIVE WHILE RECORDING DATA. UNIT PERFORMED AS DESIGNED. NO FAULTS RETURNED. DROVE BACK TO SHOP AND PARKED UNIT IN SERVICE LOT. ATTACHED THE ECM IMAGE TO THE RO FOLDER IN SHARED DRIVE. UPDATED CUMMINS. ADVISED THAT IF ISSUE CONTINUES UNIT WILL NEED AN ECM CASE CLOSED. CLEANED UP AREA, JOB COMPLETE.

Supp.	Part	Description / Ref Number	U/M	Quantity	Price	Extended Price
	2028048PE	GASKET, DEF DOSER	EA	1.0	\$40.54	\$40.54
	0419557CUM	GASKET, AFM DEVICE EPA-Y	EA	1.0	\$47.87	\$47.87
	Env Fee	Environmental Service Charge		1.0	\$10.00	\$10.00

** See Last Page for Invoice Total **


**KENWORTH
SALES™**

6420 E Broadway Ave
Spokane Valley, WA 99212

PH: (509) 534-2643
www.kenworthsalesco.com

Invoice: 016W3238
Date / Hour: 12/13/2022 8:17:19AM
Repair Order: 3238
Customer: 1001
Branch: SPOKANE
Total Invoice: \$ 1,667.47
Cash
Page 2 of 2

Bill To: YRC O/O
WA

Ship To: YRC O/O
WA

1 of 4

Customer P/O: Add User: jruenchl Open Date: 12/07/2022 Completion Date: 12/12/2022 Salesperson:

Dental Tax Info: Spokane Valley, WA City Tax: \$36.53 Total Parts: \$88.41

6:10



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CSI-243994.1_CAL...9e09890ee05.pdf - Read-only



CUSTOMER #:

243994



CALGARY PETERBILT LTD.

C REEVES SERVICES LTD.

INVOICE

11550 44th Street S.E. - Calgary, AB T2Z 4A2

Phone: (403) 235-2550 - Fax: (403) 235-1322

Toll Free 1-800-332-1296

Parts Direct (403) 248-PETE (7383)

PAGE 1

HOME:

CONT:

BUS:

CELL:

SERVICE ADVISOR: 29 Rachel Sayer

COLOUR		YEAR	MAKE/MODEL	VIN	LICENSE	ODOMETER IN/OUT	TAG	
		18	KENWORTH T680	1XKYD49X2JJ992740	1531195/1531214			120885
IN SVC. DATE	PROD. DATE	WARR. EXP.	PROMISED	PO NO.	EST. PAY.	PAYMENT	INV. DATE	
04JUL17 DB			02:15 18DEC22		172.00	VISA	17DEC22	
R.O. OPENED		READY	OPTIONS	DLR:C038 ENG:79987280 TRN:P1069072				

LINE	OPCODE	TECH	TYPE	HOURS	LIST	NET	TOTAL
A	EH	Record	Engine Hrs-Engine Warranty Claims.				
			Mileage				
			EH ENGINE HOURS 20578 FINAL MILEAGE 1531214				
			9999 C			0.00	0.00
PARTS:			0.00 LABOR:	0.00 OTHER:	0.00	TOTAL LINE A:	0.00

B NEED THE NEW ECM FROM PARTS PROGRAMMED AND INSTALLED They would like the old ECM back.
04-150 PERFORMED DEF DIAGNOSTICS REPLACED DEF IN TANK FILTER
1135 C
1145 C

						860.00	860.00
1	085360	SCREEN TANK DEF	14.32	12.89		12.89	
2	F38-6242	FITTING-90 NORMAQUICK S 1/2 S	10.99	9.01		18.02	
2	9210TRP	CLAMP	3.04	2.74		5.48	
7	55-126	SINGLE JUG	19.69	19.69		137.83	
PARTS:	174.22	LABOR:	860.00	OTHER:	0.00	TOTAL LINE B:	1034.22

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OUT	DESCRIPTION	TOTALS
THESEBY ACKNOWLEDGE MY INDEBTNESS FOR THIS INVOICE	PETERBILT LETHBRIDGE	LABOUR AMOUNT
\$	4110 - 18th Avenue North Lethbridge, AB T1H 6N7	PARTS AMOUNT
ALL WARRANTY SUBJECT TO FACTORY ACCEPTANCE	Phone: (403) 328-0500	GAS, OIL, LUBE
SIGNATURE	Fax: (403) 328-0225	SHRIFT AMOUNT
DATE RELEASED:	Toll Free: 1-888-777-3112	MISC. CHARGES
CST # R100731512	PETERBILT RED DEER	TOTAL CHARGES
	27 Burnt Lake Crescent Red Deer County, AB T4S 2L4	LESS INSURANCE
	Phone: (403) 342-5100	G.S.T.
	Fax: (403) 342-5153	PLEASE PAY THIS AMOUNT
	Toll Free: 1-877-348-5100	
	PETERBILT MEDICINE HAT	
	2250 South Highway Dr SE Redcliff, AB T0J 2P0	
	Phone: 403-528-4460	
	Fax: 403-525-5299	
	Toll-Free: 1-844-528-4460	

CUSTOMER COPY

CUSTOMER #: 913439

243994



CALGARY PETERBILT LTD.

CAROL REEVES
C REEVES SERVICES LTD.

INVOICE

11550 44th Street S.E. - Calgary, AB T2Z 4A2

Phone: (403) 235-2550 - Fax: (403) 235-1322

Toll Free 1-800-332-1296

Parts Direct (403) 248-PETE (7383)

PAGE 2

HOME:

CONT: 780-940-2845

BUS:

CELL:

SERVICE ADVISOR: 29 Rachel Sayer

003-700-340 2643 CELL			SERVICE ADVISOR: 29 KACIEL SVST				
COLOUR	YEAR	MAKE/MODEL	VIN	LICENSE	ODOMETER IN/OUT	TAG	
	18	KENWORTH T680	1XKYD49X2JJ992740		1531195/1531214	120885	
IN SVC. DATE	PROD. DATE	WARR. EXP.	PROMISED	PO NO.	QUOT. PAY. (EST. AMT.)	PAYMENT	INV. DATE
04JUL17 DB			02:15 18DEC22		172.00	VISA	17DEC22
R.O. OPENED		READY	OPTIONS	DLR: C038	ENG: 79987280	TRN: P1069072	

LINE	OPCODE	TECH	TYPE	HOURS	LIST	NET	TOTAL
			unplugged DEF quality sensor, removed tank straps and lowered tank to				



HIGH RIVER MECHANICAL LTD

PO BOX 5249 STN MAIN
HIGH RIVER, AB
T1V 1M4

Invoice

Date	Invoice #
12/5/2022	22501

Invoice To
C REEVES SERVICES

Unit #	P.O. No.	Terms
159324		
S.O. No.		
13137		



Item	Description	Qty	Rate	Amount
	CHECK DEF ISSUES LOAD TEST BATTERIES AND REPLACE IF NEEDED			
	WORK PERFORMED DEC 6 2022 UNIT 159324 VIN 1XKYD49X2JJ992740 PLATE # CKG-028 MILEAGE 1529706 ENG HRS 20541			
	DEF - CHECKED CODES NONE LOGGED FOR DPF AND DEF. INSPECTED PREVIOUS CODES AND PULLED BOTH SIDE PANELS OFF. PRESSURE TESTED PUMP AND INSPECTED LINES AND WIRING OK CUSTOMER WANTS PUMP CHANGED. REMOVED GUARD, REMOVED LINES AND UNBOLTED PUMP. BOLTED NEW ONE ON HOOKED LINES UP AND PRIMED PUMP AND INSPECTED FOR LEAKS OK. CHECKED COOLANT LEVEL OK. RAN AND NO CHECK ENGINE LIGHT			
BNC5/16X1	BATTERY - REMOVED CONNECTIONS AND CLEANED CABLE ENDS. LOAD TESTED EACH BATTERY AND ALL OVER RATED 825 CCA. RE CONNECTED AND SPRAYED PROTECTANT OVER TERMINALS	2	0.34	0.68
FW5/16	BOLT	2	0.15	0.30
LW5/16	FLAT WASHER 5/16 LOCK WASHER 5/16	2	0.08	0.16

Subtotal

GST

Total

Phone #	Fax #	E-mail
403-652-5304	403-652-5692	jody_lentz@highrivermechanical.com

GST/HST No.

861733541

Unit # 159324

=

* # .W30068*

COPY



Calgary Diesel Service Inc.
4013 - 15A STREET SE
CALGARY, ALBERTA
T2G 3N9
403-262-5750 GST # R122236797

INVOICE W 30068
Date 11/22/2022
Date Open 11/17/2022

Page: 1 of 1

Sold To :				Ship To :			
C REEVES SERVICES							
Written By KEVIN	Terms CHG	Time 09:18:32	Customer Po #	Promised	Phone	Ship Via	
Unit # 159324	Plate #	Year 2017	Make KENWORTH	Model T680	Mileage/Hrs 1526537/0.0	VIN 1XKYD49X2JJ992740	Engine
Qty	Description					Price	Amount
	Work Requested : COMPUTER DIAGNOSTICS & TESTING - CHECK ENGINE LIGHT AND DERATING Work Completed : CONNECT LAPTOP AND RUN DIAGNOSTIC PROGRAMS. FOUND ISSUE WITH DEF SYSTEM. TROUBLESHOOT FURTHER. ONCE DEF LINES REPLACED, CLEAR ALL CODES AND TEST OPERATION.						218.00
	SubTotal						218.00
	Work Requested : EXHAUST REPAIR - TROUBLESHOOT DEF SYSTEM Work Completed : PRESSURIZE DEF SYSTEM AND CHECK FOR LEAKS. NO LEAKS FOUND. FOUND THREE INCORRECT AMP RATED FUSES FOR DEF HEATER LINES. FUSES SHOULD BE 6 AMP. FUSES FOUND WERE 15 AND 20 AMP. DEF HEATED LINES DAMAGED WITH TOO HIGH OF FUSES. DISASSEMBLE AS REQUIRED, REMOVE LEFT SKIRT AND STEPS FOR ACCESS TO DEF TANK. DISCONNECT AND REMOVE AND REPLACE DEF HOSES AND SECURE. REASSEMBLE AND SECURE COMPONENTS REMOVED FOR ACCESS. PERFORM DEF LINE LEAK TEST. NO LEAKS FOUND. RUN TRUCK AND TEST OPERATION.						687.50
1.000	GWK4412850	DEF LINES			867.92	867.92	
1.000	GWK3232750	DEF LINES			847.81	847.81	
	SubTotal						2403.23

I hereby authorize the the above named business to perform the repair work listed above, along with the necessary materials. You & your employees may operate the above vehicle for the purposes of testing, inspection, or delivery at my risk. An express mechanic lien is acknowledged on above vehicle to secure the amount of repairs. Therefore it is understood that this company assumes no responsibility for loss or damage by theft or fire to vehicles placed with them for storage, sale, repair or while road testing. I hereby acknowledge my indebtedness in the amount shown & agree to pay interest at the rate of 2% per month (24.0% per annum), on any outstanding balance.
WARNING: WHEELS MUST BE RETORQUED WITHIN 100 KMS.

Parts..... 1715.73
Labor..... 905.50
Shop Supplies 63.39

Thanks for the business, we'll see you again soon. WARNING: ENSURE WHEEL NUTS & U BOLTS ARE CORRECTLY RETORQUED WITHIN 100 KMS.

Sub Total 2684.62
Gst Tax..... 134.23
TOTAL 2818.85

Authorized By



Calgary Diesel Service Inc.
4013 - 15A STREET SE
CALGARY, ALBERTA
T2G 3N9
403-262-5750 GST # R122236797

UNIT # 159324

INVOICE

W 30068

Date Closed

11/22/22

Date Open

11/17/22

Page: 1 of 1

Sold To :

Ship To :

C REEVES SERVICES

11/25/22

PAID

Written By KEVIN		Terms CHG		Time 20:10:07	Customer Po #		Promised	Phone		Ship Via
Unit # 159324		Plate #	Year 2017	Make KENWORTH	Model T680	Mileage/Hrs 1526537/0.0		VIN 1XKYD49X2JJ992740		Engine

Qty	Description	Price	Amount
	Work Requested : COMPUTER DIAGNOSTICS & TESTING - CHECK ENGINE LIGHT AND DERATING Work Completed : CONNECT LAPTOP AND RUN DIAGNOSTIC PROGRAMS. FOUND ISSUE WITH DEF SYSTEM, TROUBLESHOOT FURTHER. ONCE DEF LINES REPLACED, CLEAR ALL CODES AND TEST OPERATION.		218.00
		SubTotal	218.00
	Work Requested : EXHAUST REPAIR - TROUBLESHOOT DEF SYSTEM Work Completed : PRESSURIZE DEF SYSTEM AND CHECK FOR LEAKS. NO LEAKS FOUND. FOUND THREE INCORRECT AMP RATED FUSES FOR DEF HEATER LINES. FUSES SHOULD BE 5 AMP. FUSES FOUND WERE 15 AND 20 AMP. DEF HEATED LINES DAMAGED WITH TOO HIGH OF FUSES. DISASSEMBLE AS REQUIRED, REMOVE LEFT SKIRT AND STEPS FOR ACCESS TO DEF TANK. DISCONNECT AND REMOVE AND REPLACE DEF HOSES AND SECURE. REASSEMBLE AND SECURE COMPONENTS REMOVED FOR ACCESS. PERFORM DEF LINE LEAK TEST. NO LEAKS FOUND. RUN TRUCK AND TEST OPERATION.		687.50
1.000	GWK4412850 DEF LINES	867.92	867.92
1.000	GWK3232750 DEF LINES	847.81	847.81
		SubTotal	2403.23

Then
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2% p
WARI

Thank:

CALGARY DIESEL SERVICES
4013 15A ST SE
CALGARY AB

CARD TYPE
DATE 2022/11/25
TIME 1745 09:33:24
INVOICE # 30068
RECEIPT NUMBER
M84037705-001-001-039-0

PURCHASE
TOTAL

\$2,818.52

PASSWORD USED
APPROVED
AUTH# 485666
THANK YOU

01-027

CARDHOLDER COPY

IMPORTANT - RETAIN THIS
COPY FOR YOUR RECORDS

Parts.....	1715.73
Labor.....	905.50
Shop Supplies	63.39
Sub Total	2684.62
Gst Tax.....	134.23

Authorized By _____

PAID
11/25/22
VISA
#485666

TOTAL 2818.85

Opps! -33
= 2818.52



Nomad Mechanical

Ossie Wozny
GST # 718926678RT0001
34543 Range Road 272
Red Deer County, Alberta
T4G0M4
4035961756
Nomad.mechanical.ab@gmail.co
m

INVOICE
INV0095

DATE
11/15/2022

DUE
On Receipt

BALANCE DUE
CAD \$0.00

BILL TO

Creeves inc

DESCRIPTION	RATE	QTY	AMOUNT
Def fluid filter kit HVNY3 Parts	\$169.17	1.1	\$186.09
Travel to Calgary Travel	\$75.00	2	\$150.00
Ran for parts, filter and doser Labor	\$65.00	2	\$130.00
Codes spn 4331 fmi 16, Spn 5394 fmi 5. Doser fluid pressure low Replaced def flyid filter, removed inlet fitting on doser filter housing to check for restriction. No restriction, blew out doser line from filter housing to doser. Pinned out wiring from ecu to doser, all wires within spec. Suspect doser valve is bad. Replaced doser valve. Will need a test drive Labor	\$65.00	5	\$325.00
V-Clamp for Scr to front section of dpf filter not installed correctly. Removed clamp and installed correctly. Rear clamp starting to rot out. WILL NEED REPLACED SOON Labor	\$50.00	1	\$50.00

Paccar crossover adapter, 9 pin
Tools

\$245.28 1.05 \$257.54

SUBTOTAL \$1,098.63

TAX \$0.00

Payment Info

PAYMENT INSTRUCTIONS

Nomad.mechanical.ab@gmail.com for
etransfers

TOTAL \$1,098.63

PAID -\$1,098.63
11/19/2022

BALANCE DUE **CAD \$0.00**

BY CHEQUE

Nomad mechanical

Visa and Mastercard accepted

Payments outstanding over 14 days are subject
to late payment charge



DATE SIGNED

11/17/2022

Unit 159324
Engine SN 79987280
Tractor SN JJ972740
Kms 1 525 104



Calgary Diesel Service Inc.
4013 - 15A STREET SE
CALGARY, ALBERTA
T2G 3N9
403-262-5750 GST # R122236797

INVOICE W 29987

Date Closed 10/07/22

Date Open 10/07/22

Page: 1 of 1

Sold To :

Ship To :

C REEVES SERVICES

Written By KEVIN	Terms CHG	Time 14:21:36	Customer Po #	Promised	Phone	Ship Via	
Unit # 159324	Plate #	Year 2017	Make KENWORTH	Model T680	Mileage/Hrs 1502269/0.0	VIN 1XKYD49X2JJ992740	Engine
Qty							

Qty	Description	Price	Amount
1.000	Work Requested : ENGINE REPAIR LABOUR - ENGINE AUXILLARY HEATER NOT WORKING SUBLET ITEM 1 AUXILLARY ENGINE HEATER NOT WORKING. DIAGNOSE AND FOUND WATER PUMP FAULTY. SOURCE PARTS. DISASSEMBLE AND REMOVE AND REPLACE WATER PUMP.	924.61	924.61
		SubTotal	924.61

I hereby authorize the the above named business to preform the repair work listed above, along with the necessary materials. You & your employees m operate the above vehicle for the purposes of testing, inspection, or delivery at my risk. An express mechanics lien is acknowledged on above vehicle to secure the amount of repairs. Thereto it is understood that this company assumes no responsibility for loss or damage by theft or fire to vehicles placed with them for storage , sale, repair or while road testing. I hereby acknowledge my indebtedness in the amount shown & agree to pay interest at the rate of 2% per month (26.8% per annum), on any outstanding balance.

WARNING: WHEELS MUST BE RETORQUED WITHIN 100 KMS

Parts.....	0.00
Sublet.....	924.61

Thanks for the bussiness, we'll see you again soon. WARNING: ENSURE WHEEL NUTS & U BOLTS ARE CORRECTLY RETORUED WITHIN 160 KMS

Sub Total	924.61
Gst Tax.....	46.23
TOTAL	970.84

Authorized By _____

PAID



Calgary Diesel Service Inc.
4013 - 15A STREET SE
CALGARY, ALBERTA
T2G 3N9
403-262-5750 GST # R122236797

INVOICE W 31587
Date Closed 12/02/24
Date Open 10/18/24

Page: 1 of 2

Sold To :

Ship To :

C REEVES SERVICES

Careeves 81@gmail.com
Emailed 12/09/24

Written By KEVIN		Terms CHG		Time 17:39:10		Customer Po #		Promised		Phone		Ship Via			
Unit # 159324		Plate #		Year 2017		Make KENWORTH		Model T680		Mileage/Hrs 789399/0.0		VIN 1XKYD49X2JJ992740		Engine	

Qty	Description	Price	Amount
	Work Requested : C.V.I.P. TRACTOR ** C.V.I.P. TRACTOR INSPECTION		250.00
		SubTotal	250.00
	Work Requested : WHEEL REPAIR LABOUR - REMOVE BACKING PLATES TO GET BRAKE MEASUREMENTS Work Completed : DISASSEMBLE AS REQUIRED, REMOVE BACKING PALTES ON #2 AND #3 AXLES TO GET BRAKE MEASUREMENTS. REINSTALL BACKING PLATES AND NEVER SEIZE HARDWARE. JACK UP #1 AXLE AND REMOVE BOTH WHEELS TO GET BRAKE MEASUREMENTS. REINSTALL WHEELS, LOWER OFF STANDS, AND TORQUE ALL TO SPEC.		390.00
		SubTotal	390.00
2.000	Work Requested : *ELECTRICAL REPAIRS - FRONT SIGNAL/FOUR WAY/PARK LIGHTS NOT WORKING, WINDSHIELD WASHER PUMP NOT WORKING Work Completed : TROUBLESHOOT LIGHT ISSUE. REMOVE BULBS. CLEAN WIRING CONTACTS. INSTALL NEW BULBS AND SECURE. TEST OPERATION. TROUBLESHOOT WINDSHIELD WASHER ISSUE. CHECK FUSES AND RELAYS. CLEAN CONNECTIONS. REPAIR WIRING AND SECURE ALL AS REQUIRED. TEST OPERATION. LIG3157 BULB	3.50	7.00
		SubTotal	209.50

I hereby authorize the the above named business to preform the repair work listed above, along with the necessary materials. You & your employees may operate the above vehicle for the purposes of testing, inspection, or delivery at my risk. An express mechanics lien is acknowledged on above vehicle to secure the amount of repairs. Thereto it is understood that this company assumes no responsibility for loss or damage by theft or fire to vehicles placed with them for storage, sale, repair or while road testing. I hereby acknowledge my indebtedness in the amount shown & agree to pay interest at the rate of 2% per month (24.6% per annum), on any outstanding balance.
WARNING: WHEELS MUST BE RETORQUED WITHIN 100 KMS.

Parts..... 779.48
Labor..... 1112.50
Shop Supplies 111.25

Thanks for the bussiness, we'll see you again soon. WARNING: ENSURE WHEEL NUTS & U BOLTS ARE CORRECTLY RETORUED WITHIN 160 KMS.

Sub Total 2003.23
Gst Tax..... 100.16

Authorized By _____

TOTAL Continued



Calgary Diesel Service Inc.
4013 - 15A STREET SE
CALGARY, ALBERTA
T2G 3N9
403-262-5750 GST # R122236797

INVOICE W 31587
Date Closed 12/02/24
Date Open 10/18/24

Page: 2 of 2

Sold To :

Ship To :

C REEVES SERVICES

Written By KEVIN		Terms CHG		Time 17:39:11		Customer Po #		Promised		Phone		Ship Via			
Unit # 159324		Plate #		Year 2017		Make KENWORTH		Model T680		Mileage/Hrs 789399/0.0		VIN 1XKYD49X2JJ992740		Engine	

Qty	Description	Price	Amount
	Work Requested : H.V.A.C. REPAIRS - CAB BLOWER MOTOR NOISEY ON HIGH SETTING Work Completed : DISASSEMBLE DASH AS REQUIRED FOR ACCESS. DISCONNECT AND REMOVE AND REPLACE BLOWER MOTOR. TEST OPERATION. REINSTALL AND SECURE DASH PANELS AS REQUIRED.		270.00
1.000	GWKCR705003 BLOWER MOTOR	772.48	772.48
		SubTotal	1042.48
	* Alert Warning *****#1 AXLE BOTH SIDES MUST BE RETORQUED WITHIN 100 KM*****		

I hereby authorize the the above named business to preform the repair work listed above, along with the necessary materials. You & your employees may operate the above vehicle for the purposes of testing, inspection, or delivery at my risk. An express mechanics lien is acknowledged on above vehicle to secure the amount of repairs. Thereto it is understood that this company assumes no responsibility for loss or damage by theft or fire to vehicles placed with them for storage, sale, repair or while road testing. I hereby acknowledge my indebtedness in the amount shown & agree to pay interest at the rate of 2% per month (26.8% per annum), on any outstanding balance.
WARNING: WHEELS MUST BE RETORQUED WITHIN 100 KMS.

Parts..... 779.48
Labor..... 1112.50
Shop Supplies 111.25

Thanks for the bussiness, we'll see you again soon. WARNING: ENSURE WHEEL NUTS & U BOLTS ARE CORRECTLY RETORUED WITHIN 160 KMS.

Sub Total 2003.23
Gst Tax..... 100.16
TOTAL 2103.39

Authorized By _____

Unit Number: 159283
Customer Number:

5505WPS

Engine Hours:

INVOICE



357 OAK POINT HW

Page 1 of 5

Main:

www.in

GST N

Remit To:

26770 Gloucester Way, 2r

Home: Bus: Cell:
Email:

SERVICE ADVISOR: 39038 JUSTIN M

COLOR	YEAR	MAKE/MODEL		VIN	LICENSE	M
98A9659	18	KENWORTH T680		1XKYD49X2JJ992740	1	12
DEL. DATE	PROD. DATE	WARR. EXP.	PROMISED	PO NO.	RATE	PAY
01JAN18			23:00 23MAR21	RAY	0.00	COU
R.O. OPENED		BOOKED		OPTIONS: ENG:79987280 TRN:EATON RTLO-18913A AX 1)80727PB 2)MERITOR-MT40-14X3-TANDEM-F		
10:46 12FEB21		13:38 25MAR21				

LINE OPCODE TECH TYPE HOURS LIST

A COVID 19 CUSTOMER ASSET SANITIZING

010-010-030 COVID 19 CUSTOMER ASSET SANITIZING

39033 ITPL

PARTS: 0.00 LABOR: 0.00 OTHER: 0.00 TOTAL LINE F

1113243 WIPE DOWN AND SANITIZE ASSET BEFORE AND AFTER SERVICE
EVENT. WIPE DOWN WITH SANITIZER; IGNITION KEY/KEYS, EXTERIOR DOOR
HANDLE, INTERIOR DOOR HANDLE, STEERING WHEEL, GEAR SHIFT LEVER/KNC
AIR BRAKE RELEASE KNOBS DURING INITIAL WRITE-UP AND AFTER SERVICE
BEFORE EXITING THE SHOP AND PARKING THE VEHICLE.

B REPLACE LEAKING RADIATOR - TOW IN FROM PASS LAKE, ONTARIO

042-002-001 REPLACE LEAKING RADIATOR - TOW IN

FROM PASS LAKE, ONTARIO

39033CTRSE

130

1 RAD42-10316TRP RADIATOR-PETERBILT/KENWORTH
08-15

1 D50-6039 HOSE-HUMP CAC ASSY RED

2 B9224-0406TRP CLAMP-T BOLT SPRING HD 4

1/16-4 3/8

12 CT05317 TIE-CABLE 50LB 15.5" BLK

2 EC7501 COOLANT-TRP ELC 50/50 JUG

2 EHC36 E.H.C.

0.72

1 N5348001 CAP-PRESSURE

PARTS: 885.97 LABOR: 1302.00 OTHER: 1.44 TOTAL LINE E

1113243

Went to parts get new rad/ unit parked outside not plugged in had
another tech tow it in/ started removing rad/ drain fluid/ used cr

Unit Number: 159283

Customer Number:

5505WPS

Engine Hours:

INVOICE



INLAND

357 OAK POINT HWY, WINNIPEG, MB R2R 1T9

Main: 204-694-3874

www.inland-group.com

GST No R133498386

Remit To: Inland Kenworth

26770 Gloucester Way, 2nd Floor, Langley, BC V4W 3V6

Page 2 of 5

Home:

Bus:

Cell:

Email:

SERVICE ADVISOR: 39038 JUSTIN MARSHALL

SERVICE ADVISOR: 000

LINE	OPCODE	TECH	TYPE	HOURS	LIST	NET	TOTAL
------	--------	------	------	-------	------	-----	-------

let run outside bay/ checking for any other leaks get it to running temp.

Still getting pressurized and leaking from cap/ parked unit in pit.

Parked in B plugged in cleaned up area.

C** 010 EXPRESS LUBE - CHEVRON 10W30

010-010-006 010 EXPRESS LUBE - CHEVRON 10W30

39033CTOCE

134.25 134.25

1 LF14000NNFLG FILTER

62.98

1 EHC14 E.H.C.

1.00 1.00 1.00

46 257000-990C CHV DELO400XLE SYNBLN10W30 BULK

200.10

46 EHC1 E.H.C.

0.05 0.05 2.30

1 K37-1021 PACCAR FUEL ELEMENT-EXTENDED

49.14

1 EHC14 E.H.C.

1.00 1.00 1.00

1 238011-980C GRSE-ULTRA-DUTY EP NLGI 2 181 KG

8.05

1 FF5825NNFLG FILTER-FUEL

77.78

1 EHC14 E.H.C.

1.00 1.00 1.00

1 LB194 BULB-CLEAR T3-1/4, 14V WEDGE BASE

0.67

PARTS: 398.72 LABOR: 134.25 OTHER: 5.30 TOTAL LINE C: 538.27

1113243 performed express oil change/ replaced oil and fuel

filters/ checked all fluid levels/ greased unit/ ran unit and recheck oil level ok.

D** CHECK AND REPORT ON COOLING SYSTEM PRESSURIZING

045-GEN CHECK AND REPORT ON COOLING SYSTEM

PRESSURIZING

39028CTEFE

39004CTEFE

39047CTEFE

39052CTEFE

39006CTEFE

9075.00 9075.00

2 EC7501 COOLANT-TRP ELC 50/50 JUG

21.98

2 EHC36 E.H.C.

0.72 0.72 1.44

TERMS FOR FINAL INVOICE

All claims for adjustment to any item appearing on this invoice must be made to Inland Kenworth ("Inland") in writing within 10 days from date hereof.

Acknowledgement of Indebtedness and Repairer's Lien

In consideration of Inland surrendering its possession of the above described equipment or vehicle (the "Vehicle"), the undersigned, being the authorized agent for and on behalf of the Customer, hereby acknowledges, for and on behalf of the Customer that, the Customer was notified by Inland of the services and repairs itemized on this invoice and the indebtedness in respect of this invoice, and confirms the lien in respect of the previously authorized storage, repair or maintenance of the Vehicle, or the accessories for it, if full payment of this invoice is not received by Inland at the time of surrender of the Vehicle. As authorized agent for the Customer, the undersigned hereby waives for and on behalf of the Customer all rights of the Customer to receive a copy of any financing statement, verification statement or financing charge statement registered in relation to this invoice.

Authorized Signatory of Customer

Date

DESCRIPTION	TOTALS
LABOUR AMOUNT	
PARTS AMOUNT	
GAS, OIL, LUBE	
SUBLET AMOUNT	
MISC. CHARGES	
TOTAL CHARGES	
LESS INSURANCE	
SALES TAX	
PLEASE PAY THIS AMOUNT	

Unit Number: **159283**

Customer Number:

5505WPS

Engine Hours:

INVOICE



357 OAK POINT H

Page 3 of 5

Main:

www.i

GST I

Remit To:

26770 Gloucester Way, 2

Home:

Bus:

Cell:

Email:

SERVICE ADVISOR: **39038 JUSTIN M**

COLOR	YEAR	MAKE/MODEL	VIN	LICENSE	
98A9659	18	KENWORTH T680	1XKYD49X2JJ992740	1	12
DEL. DATE	PROD. DATE	WARR. EXP.	PROMISED	PO NO.	RATE
01JAN18			23:00 23MAR21	RAY	0.00
R.O. OPENED	BOOKED	OPTIONS: ENG:79987280 TRN:EATON RTLO-18913A A; 1)80727PB 2)MERITOR-MT40-14X3-TANDEM-			
10:46 12FEB21	13:38 25MAR21				

LINE	OPCODE	TECH	TYPE	HOURS	LIST
1	5579309	CUM	KIT, EPA '17 X15 OVERHAUL		
3	3678506	CUM	SCREW, HEX FLANGE HEAD CAP		
1	5575513	CUM	SCREW, HEX FLANGE HEAD CAP		
1	3164067	CUM	SEALANT		
1	3689355	CUM	EXHAUST PIPE		
20	CT05317	TIE-CABLE	50LB 15.5" BLK		
1	4966441	CUM	GASKET-EXH OUT CONNECTION		
2	730393	ATC	WASHER-SEALING A/C #8		
1	730395	ATC	WASHER-SEALING A/C #12		
1	F37-1022-100	DRYER-RECEIVER	W/DYE W/SLPR		
1	730393	ATC	WASHER-SEALING A/C #8		
2	730392	ATC	WASHER-SEALING A/C #6		
1	730395	ATC	WASHER-SEALING A/C #12		
1	DSWS4	SPACER-DUAL SWIVEL	SADDLE		
5	CT05512	TIE-CABLE	120LB, 15.25" BLK		
2	EC7501	COOLANT-TRP	ELC 50/50 JUG		
2	EHC36	E.H.C.			0.72
1	906RTEC	CLAMP-3/4" DIA.	3/8" MH		
2	D1030-3625	HOSE-HEATER	#10X25' J20R3		
3	CT05512	TIE-CABLE	120LB, 15.25" BLK		
1	836040	GRC	WRAP-TIE		
1	EB1C	ENGINE	BRITE		

Unit Number: 159283

Customer Number:

5505WPS

Engine Hours:

INVOICE

**INLAND**

357 OAK POINT HWY, WINNIPEG, MB R2R 1T9

Main: 204-694-3874

www.inland-group.com

GST No R133498386

Remit To: Inland Kenworth

26770 Gloucester Way, 2nd Floor, Langley, BC V4W 3V6

Page 4 of 5

Home:

Bus:

Cell:

Email:

SERVICE ADVISOR: 39038 JUSTIN MARSHALL

SERVICE ADVISOR

COLOR	YEAR	MAKE/MODEL	VIN	LICENSE	MILEAGE IN / OUT	TAG	
98A9659	18	KENWORTH T680	1XKYD49X2JJ992740	1	123781 / 112378	J99274	
DEL. DATE	PROD. DATE	WARR. EXP.	PROMISED	PO NO.	RATE	PAYMENT	INV. DATE
01JAN18			23:00 23MAR21	RAY	0.00	COUPON	25MAR21
R.O. OPENED		BOOKED		OPTIONS: ENG:79987280 TRN:EATON RTLO-18913A AXL:FOR04425697_3.42 1)80727PB 2)MERITOR-MT40-14X3-TANDEM-FOR04425696			
10:46 12FEB21		13:38 25MAR21					

LINE	OPCODE	TECH	TYPE	HOURS	LIST	NET	TOTAL
------	--------	------	------	-------	------	-----	-------

train components, remove injectors and lines, remove cylinder head, cleaned block then measured liner protrusion, measurements attached to ro, 3 liners are below spec block will need to be cut. Had machine shop come and cut counterbores

Finished stripping head and put it on a pallet to send out for pressure testing,

drained oil pulled pan oil pump and fixing frame. spun engine and took out all piston cooler nozzles. took all anti carbon rings out of liners. took all pistons out then pulled liners. taped up all rod journals. cleaned off block where the liner o-rings sits. Install the liners with new seal, replaced the main brgs and torque to specs.

Find pistons and rods on one side of truck and wrist pins, piston rings and anti-polish rings on other. also parts on back of truck. assemble pistons on rods. install rings. install pistons in liners.

install new rod bearings. torque rods to spec. do all 6. install head gasket lift head and try to get in place. lifting bracket in wrong place. put back on floor and move bracket. get head on engine. bar engine over, good. Clean head bolts. get ok to replace 3 bolts. torque

turn head bolts to spec. install injector return fitting and line. install rear cam plate. clean and inspect cam, good. install camshaft.

install brackets for gear housing to head. install new piston cooler nozzles and torque. install stiffener plate and torque to spec. clean up tools and cover engine.

Clean and install adjustable camshaft idler gear. clean and install camshaft gear. try to base time engine. 1st set up too tight. take apart and clean camshaft gear. try again. camshaft bolt stretching and won't torque. check with parts. Cummins has bolt. order new bolt. take apart and clean gear. took 2 more tries to get base timing right.

install upper gear cover. clean and inspect valve train. reassemble. install and torque to spec.

Do overhead set on all cylinders. clean and install injectors and fuel connectors. torque to spec. install injector harness. install valve cover and torque. install intake manifold and torque. install

fuel rail and lines. set up fuel rail and torque lines to spec. install

fuel rail and lines. set up fuel rail and torque lines to spec. install

fuel rail and lines. set up fuel rail and torque lines to spec. install

fuel rail and lines. set up fuel rail and torque lines to spec. install

TERMS FOR FINAL INVOICE	DESCRIPTION	TOTALS
All claims for adjustment to any item appearing on this invoice must be made to Inland Kenworth ("Inland") in writing within 10 days from date hereof.	LABOUR AMOUNT	
Acknowledgement of Indebtedness and Repairer's Lien	PARTS AMOUNT	
In consideration of Inland surrendering its possession of the above described equipment or vehicle (the "Vehicle"), the undersigned, being the authorized agent for and on behalf of the Customer, hereby acknowledges, for and on behalf of the Customer that, the Customer was notified by Inland of the services and repairs itemized on this invoice and the indebtedness in respect of this invoice, and confirms the lien in respect of the previously authorized storage, repair or maintenance of the Vehicle, or the accessories for it, if full payment of this invoice is not received by Inland at the time of surrender of the Vehicle. As authorized agent for the Customer, the undersigned hereby waives for and on behalf of the Customer all rights of the Customer to receive a copy of any financing statement, verification statement or financing charge statement registered in relation to this invoice.	GAS, OIL, LUBE	
	SUBLET AMOUNT	
	MISC. CHARGES	
	TOTAL CHARGES	
	LESS INSURANCE	
	SALES TAX	
	PLEASE PAY THIS AMOUNT	

Authorized Signatory of Customer

Date

Unit Number: 159283

Customer Number:

5505WPS

Engine Hours:

INVOICE

**INLAND**

357 OAK POINT HWY, WINNIPEG, MB R2R 1T9

Main: 204-694-3874

www.inland-group.com

GST No R133498386

Remit To: Inland Kenworth

26770 Gloucester Way, 2nd Floor, Langley, BC V4W 3V6

Page 5 of 5

Home:

Bus:

Cell:

Email:

SERVICE ADVISOR: 39038 JUSTIN MARSHALL

SERVICE ADVISOR: 666-666-6666

COLOR	YEAR	MAKE/MODEL	VIN	LICENSE	MILEAGE IN / OUT	TAG	
98A9659	18	KENWORTH T680	1XKYD49X2JJ992740	1	123781 / 112378	J99274	
DEL. DATE	PROD. DATE	WARR. EXP.	PROMISED	PO NO.	RATE	PAYMENT	INV. DATE
01JAN18			23:00 23MAR21	RAY	0.00	COUPON	25MAR21
R.O. OPENED		BOOKED		OPTIONS: ENG:79987280 TRN:EATON RTLO-18913A AXL:FOR04425697_3.42 1)80727PB 2)MERITOR-MT40-14X3-TANDEM-FOR04425696			
10:46 12FEB21		13:38 25MAR21					

LINE	OPCODE	TECH	TYPE	HOURS	LIST	NET	TOTAL
------	--------	------	------	-------	------	-----	-------

brackets and secure harnesses on l/s engine. install crank case filter bracket and filter housing. install air compressor resonator. Install exhaust manifold. remove exhaust manifold. install thermostat housing. r&r thermostat. install exhaust manifold. stat to connect egr cooler connection and end came off remove exhaust manifold and inspect egr cooler connection. needs new tube. j-seal came off. get new tube and install. install exhaust manifold and torque to spec. one turbo stud about 1/2 way out. try to remove, no good. try to run back in, no good. Heat stud and try to remove. stud broke. drill out and extract stud. (took a while). clean threads on turbo and install new stud. install turbo and torque to spec. install egr assembly and exhaust outlet. install ac compressor. install fan hub, blade and shroud. install oil pump and torque to spec. install pick-up tube and torque to spec. clean pan and install, torque to spec. install rad assy. r&r receiver dryer. replace seal rings as need. install coolant lines and rad supports. fill coolant. install charge air cooler pipes. psi test ac system. fill oil with old oil. vacuum and leak test ac system, good. install air filter housing and pipes. prime fuel system. get unit running. move to wash bay. wash off engine. back unit outside and run up. check for leaks.

SHOP SUPPLIES

499.99

GST

1232.53

TERMS FOR FINAL INVOICE

All claims for adjustment to any item appearing on this invoice must be made to Inland Kenworth ("Inland") in writing within 10 days from date hereof.

Acknowledgement of Indebtedness and Repairer's Lien

In consideration of Inland surrendering its possession of the above described equipment or vehicle (the "Vehicle"), the undersigned, being the authorized agent for and on behalf of the Customer, hereby acknowledges, for and on behalf of the Customer that, the Customer was notified by Inland of the services and repairs itemized on this invoice and the indebtedness in respect of this invoice, and confirms the lien in respect of the previously authorized storage, repair or maintenance of the Vehicle, or the accessories for it, if full payment of this invoice is not received by Inland at the time of surrender of the Vehicle. As authorized agent for the Customer, the undersigned hereby waives for and on behalf of the Customer all rights of the Customer to receive a copy of any financing statement, verification statement or financing charge statement registered in relation to this invoice.

Authorized Signatory of Customer

Date

DESCRIPTION	TOTALS
LABOUR AMOUNT	\$ 10511.25
PARTS AMOUNT	\$ 11175.73
GAS, OIL, LUBE	\$ 0.00
SUBLET AMOUNT	\$ 2454.06
MISC. CHARGES	\$ 509.61
TOTAL CHARGES	\$ 24650.65
LESS INSURANCE	\$ 570.00
SALES TAX	\$ 1232.53
PLEASE PAY THIS AMOUNT	\$ 25313.18

Customer Conv