

R04-7  
JUN



# GREATWEST KENWORTH LTD

1901 BROADWAY AVENUE EAST  
REDCLIFF, AB T0J 2P0  
(403) 488-4084

Sold To: RAFTER 9 OILFIELD SERVICES

Ship To: RAFTER 9 OILFIELD SERVICES

CUSTOMER INVOICE  
Work Order  
**SM6006409**

Date: 03-18-26  
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Year	Make / Model	Serial Number	License	Mileage	Unit/Stock
2018	Kenworth / T880	1XKZDPOX2JJ990327	ALBERTA	1056844	U26
Delivery Mileage	Delivery Date	Engine Model / Serial #	Transmission Model/Serial #		
	03-21-17	MX-13 / Y126376	FULLER RTLO18918B 18-SPEED SUPE FULLER RTLO18918B 18-SPEED SUPE / P1023509		
CPL/ARRG	Rear Ratio	Rear Axle Model / Serial #	Rear Axle Model / Serial # 2		
	4.10	RT46-164PEH FOR04195977	FOR04195978		
Engine Hours	Reefers Hours	Standby Hours	P.O. Number	Open Date / Time	Complete
			1332	03-02-26 / 10:16AM	03-16-26
Service Writer					
AYE*AYE					
Memo					

Tax ID Date: Tax ID:

1 KENWORTH PRIVILEGES PROGRAM - \*\* REGISTER AND SAVE EVEN MORE THROUGH THE KENWORTH LOYALTY REWARDS PROGRAM! \*\*

2 COMPLIMENTARY INSPECTION  
\*\* COMP. INSP. SERVICE SPECIAL \*\*

>> NO CHARGE <<

3 DIAGNOSE HEAD COOLANT SYSTEM PRESSURING UP  
CAUSE:  
AIR COMPRESSOR LEAKING AIR INTO COOLANT SYSTEM

**CORRECTION:**

TEST DRIVE UNIT, COOLANT SYSTEM IS SLIGHTLY PRESSURING UP. DRAIN COOLANT SYSTEM, REMOVE COOLANT LINES TO COMPRESSOR, AND INSTALL BYPASS KIT WITH TEST TUBES. FILL COOLANT SYSTEM AND FILL TEST TUBES ON COMPRESSOR WITH WATER. RUN UNIT AND WATCH TEST TUBS, COMPRESSOR IS LEAKING AIR INTO TEST TUBES, SO ALSO COOLANT SYSTEM. WILL NEED NEW AIR COMPRESSOR HEAD

TOTAL LABOR 480.16

4 R&R AIR COMPRESSOR HEAD COOLANT SYSTEM PRESSURING UP  
CAUSE:  
AIR COMPRESSOR HEAD LEAKING AIR INTO COOLANT SYSTEM

**CORRECTION:**

DRAIN COOLANT FROM SYSTEM, REMOVE FENDER AND DRIVERS SIDE STEER TIRE FOR ACCESS, REMOVE CHASSIS FUEL FILTER AND LINES, REMOVE ALL LINES FROM COMPRESSOR HEAD, REMOVE COMPRESSOR HEAD. CLEAN ALL SEALING SURFACES AND INSPECT CYLINDERS AND PISTONS ON BOTTOM END, BOTTOM END LOOKS GOOD. INSTALL NEW COMPRESSOR HEAD AND TORQUE TO SPEC, INSTALL

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ALL LINES TO COMPRESSOR, REASSEMBLE FUEL SYSTEM, FILL UNIT WITH COOLANT. START UNIT AND CHECK FOR ANY LEAKS, NO LEAKS FOUNDTEST DRIVE UNIT, COOL NOT GET COOLANT SYSTEM TO OVERPRESSURE ANYMOREALSO NOTE UNIT IS SHOWING CHECK ENGINE LIGHT AND CODES FOR VGT ACTUATOR

TOTAL LABOR 789.94  
TOTAL PARTS 1,920.97

Qty	Part Number	Description	Unit	Extended
1	1732080PE	HEAD-CYLINDER COMPRESSOR	1,881.98	1,881.98
2	1858039PE	SEAL, 13.4X24.0X1.5MM	3.89	7.78
1	1973433PE	COOLANT PIPE	31.21	31.21

5 DIAGNOSE CEL - VGT? CHECK ENGINE LIGHT  
CAUSE:  
GROUND GOING TO VGT HAS SHORT

**CORRECTION:**

HOOK UP DAVIE 4 TO UNIT, SHOWING VGT CODES U1159 AND U1835. UNPLUG VGT AND PLUG IN BREAKOUT BOX, TEST E CAN NETWORK, NETWORK SHOWING INTACT, TEST FOR POWER TO VGT, POSITIVE IS SHOWING GOOD, GROUND WIRE IS SHOWING HIGH RESISTANCE. WILL NEED NO GROUND TO VGT

TOTAL LABOR 325.27

6 RUN HARNESS OVERLAY FOR A NEW GROUND TO VGT CHECK ENGINE LIGHT  
CAUSE:  
GROUND TO VGT ACTUATOR FAILED

**CORRECTION:**

CONFIRM GROUND IN NORMALLY RUN TO FRAME GROUND STUD WITH SCHEMATICS, RUN NEW GROUND WIRE FROM GROUNDING STUD TO VGT CONNECTOR, REMOVE OLD PIN FROM CONNECTOR AND INSTALL WIRE WITH NEW PIN, SECURE ALL WIRES. HOOK UP DAVIE 4, VGT CODES INACTIVE AND NO CHECK ENGINE LIGHT

TOTAL LABOR 294.29  
TOTAL PARTS 3.52

Qty	Part Number	Description	Unit	Extended
8	773.14	1/4" SPLIT LOOM	0.44	3.52

SHOP SUPPLIES 188.97

G.S.T. - REG. NO. R139766661 5 % OF 4,003.12 = 200.16

CUST MECH LAB-MH 1,889.66  
PARTS CUST RO-MH 1,924.49  
SHOP SUPPLY-MH 188.97  
G.S.T. R139766661 200.16  
11010 CHARGE 4,203.28

**Hopf Mechanical & Hydraulics**  
 660 Aquaduct Drive East  
 Box 1658  
 Brooks, AB T1R 1C5, CA  
 admin@hopfmechanical.com  
 403-501-0190



Invoice: **29089**  
 Date: **2/5/2026**

**Bill To**  
 Rafter 9 Oilfield Services  
  
 P: (403) 793-2072

**Remit Payment To**  
 Hopf Mechanical & Hydraulics  
 660 Aquaduct Drive East  
 Box 1658  
 Brooks, AB T1R 1C5, CA

Service Order	Terms	Due Date	Authorizer	Customer PO	Unit #
16139	Net 45	3/22/2026	Darcy Wotherspoon		U26

**Item Description** **Quantity** **Rate** **Amount**

**Complaint:** FLOW TEST HYDRAULICS  
**Cause:** Customer request

Labor	Chassis / Chassis / FLOW TEST HYDRAULICS	2.00000	\$135.00	\$270.00
			<b>Subtotal</b>	<b>\$270.00</b>
	FREIGHT/SHIPPING	1.00	\$0.00	\$0.00

Unit: U26 VIN: 1XKZDP0X2JJ990327  
 2018 Kenworth T880  
 Chassis: 1,060,000 Kilometers

<b>Labor</b>	\$270.00
<b>Shop Supplies</b>	\$21.60
<b>Pre-Charge Subtotal</b>	\$291.60
<b>FREIGHT/SHIPPING</b>	\$0.00
<b>GST</b> (5% of \$291.60)	\$14.58
<b>Total</b>	\$306.18
<b>Payments &amp; Credits</b>	\$0.00
<b>Balance Due</b>	\$306.18

Any warranties on the parts and accessories sold hereby are made by the manufacturer. You understand and agree that we make no warranties of any kind unless expressed in writing. You hereby authorize us to perform the repair work herein set forth and to purchase the necessary material and parts to perform such repair work. You agree that we are not responsible for loss or damage to your vehicle or articles left in your vehicle in case of fire, theft, or any other cause beyond our control or for any delays caused by unavailability of parts or delays in part shipments by the supplier or transporter. In addition, you agree that we are not responsible for damages to your vehicle from freezing due to lack of antifreeze. You hereby grant our employees permission to operate your vehicle on streets, highways, or elsewhere for the purpose of testing and/or inspection. You acknowledge and agree that an express mechanic's lien on your vehicle is granted to secure payment of this invoice for the repair work detailed in this invoice.