

Northern Trailer and Truck
 2210 - 19 Avenue
 Wainwright, AB T9W 1L2, CA
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 780-842-0080



Invoice: 15291

Date: 11/19/2025

LOT # 3264
 UNIT # 801

Bill To
 Brothers HDD
 2002 23 Avenue
 Wainwright, AB T9W 0B8, CA
 P: (780) 214-7711

Service Order	Terms	Due Date	Authorizer	Customer PO	Service Writer	Unit #
9174	COD	11/19/2025	Ron Jerome	14251	LaPierre, Zane	801

Item	Description	Quantity	Rate	Amount
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Complaint: Diagnose - Transmission Grinding when Shifting from High to Low range - Output Yoke has Excessive Movement?

Cause: Unknown Type: Unscheduled repair

Labor	Correction: Powertrain - Clutch/ Transmission/ Aux / Driveline/ Differentials/ Axles / Clutch and Transmission - Service / repair / shifter / controls / Diagnose - Back of Transmission Falling/Coming Apart? Output Yoke has Excessive Movement?	0.60000	\$135.00	\$81.00
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Transmission Output bearing worn out requires replacement - Synchronizer is also hanging up causing the grinding - Completed: 11/18/2025

Labor	Correction: Powertrain - Clutch/ Transmission/ Aux / Driveline/ Differentials/ Axles / Clutch and Transmission - Service / repair / shifter / controls / Trans Assembly R&R - With Dual Exhaust Main Manual Trans With Conventional Cab With Meritor Freedom Line Transmission Includes: Removal of Trans and all necessary components for access. Time for transferring of components, make necessary adjustments, and to add fluid. Does not include: System diagnosis and testing, or a vehicle road test. (026-012)	15.00000	\$135.00	\$2,025.00
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-Remove drive lines

-remove exhaust had to cut apart everything was seized

-drain transmission, remove hydraulic pump, remove PTO assembly

-remove shifter, disconnect all electrical/air lines

-remove clutch bolts, support and remove transmission

-swap components to new transmission

-Confirmed rear housing concentricity in spec good

-install flywheel, torque to spec

-clean clutch/flywheel housing surfaces and threads

PT801

5140 - 1000

ENTERED

-install transmission with new mounting hardware torque to oem spec
 -torque down clutch with new mounting bolts to oem spec, grease clutch and linkage, replaced damaged clutch linkage ends (were loose and damaged thread surface), set clutch adjustment

-install all removed components, mount new PTO and set backlash to .008" torqued to spec

-went to mount hydraulic pump but due to PTO change up supply line was to short, replace suction line and prime hydraulic pump, top up hydraulic oil level

-install new transmission cooler DUE TO OLD COOLER FAILURE WHICH CAUSED TRANSMISSION FAILURE

-Install drive line, torque to spec and grease

-Fill transmission with new oil

-Test drove unit and reinspect for leaks good

-ran PTO and ran outrigger function in/out up/down good

-recheck hydraulic and transmission oil levels good

Note Customer is advised to replace transmission oil after 5000KM for removal of break in contamination - Completed: 11/18/2025

Parts	TRANSMISSION - RTLO-18918B	1.00000	\$4,385.00	\$4,385.00
Parts	Inherent Core for TRANSMISSION - CLASS13-C1	1.00000	\$4,400.00	\$4,400.00
Parts	Dirty Core for TRANSMISSION - CLASS13-C1	-1.00000	\$4,400.00	-\$4,400.00
Parts	CLUTCH 15.5 X 2 EP 2050TQ EASY PEDAL - 308925-25	1.00000	\$1,615.20	\$1,615.20
Parts	KIT-HEAT EXCHANGER - K3966	1.00000	\$1,289.88	\$1,289.88
Parts	489 SERIES ASSY.WITH 8 BOLT - 489XHAHX-A3XK	1.00000	\$2,050.00	\$2,050.00
Parts	2" CLUTCH BRAKE - SB200	1.00000	\$57.84	\$57.84
Parts	PILOT BEARING - 306VV	1.00000	\$44.85	\$44.85
Parts	7/16" GR8. LOCK WASHER - GR8LW716	20.00000	\$0.19	\$3.80
Parts	7/16" GR8. FLAT WASHER - GR8FW716	20.00000	\$0.06	\$1.20
Parts	CLUTCH LINKAGE TIE ROD - 462.ESPF6S	2.00000	\$13.49	\$26.98
Parts	5" DPF GASKET 4.75" ID X 5.75" OD X .072" THICKNESS - 562.U85591	3.00000	\$10.43	\$31.29
Parts	7/16" X 1" NC GR8. BOLT - GR8NC7161	4.00000	\$0.66	\$2.64
Parts	7/16" X 1-1/2" NC GR8. BOLT - GR8NC716112	12.00000	\$0.62	\$7.44
Parts	7/16" X 2-1/2" NC GR8. BOLT - GR8NC716212	8.00000	\$0.98	\$7.84
Parts	4" STEP CLAMP - 33969	1.00000	\$16.60	\$16.60
Parts	5" STEP CLAMP - 33225	2.00000	\$19.83	\$39.66
Parts	5" EXHAUST U-BOLT STYLE CLAMP - 35775	1.00000	\$10.02	\$10.02
Parts	5.88" V-BAND CLAMP - 561.29588	1.00000	\$28.59	\$28.59
Parts	5/8" NF LOCK NUT - NYLOCKNF58	6.00000	\$0.61	\$3.66
Parts	BLUE HEAT SHRINK 16-14 GAUGE EYELET - 84-2410	2.00000	\$1.09	\$2.18
Parts	3/8" GR8. FLAT WASHER - GR8FW38	4.00000	\$0.09	\$0.36
Parts	GR8 NF NUT 3/8" - GR8NFNUT38	2.00000	\$0.11	\$0.22

Parts	HOSE ASSEMBLY - HOSEASSEMBLY	1.00000	\$149.12	\$149.12
Parts	CHEVRON DELO SYN- TRANS XE 75W90 (PER LITER) - 22307905-1L	21.00000	\$17.75	\$372.75
Parts	HD MIKALOR - CLMIK5963	2.00000	\$8.71	\$17.42
Parts	SUSTION HOSE - EXTREME200	4.50000	\$25.99	\$116.96
Parts	1/2" X 2" NC GR8. BOLT - GR8NC122	6.00000	\$1.03	\$6.18
Parts	1/2" GR8. FLAT WASHER - GR8FW12	12.00000	\$0.21	\$2.52
Parts	1/2" NC GR5. NYLOC NUT - NYLOCKNC12	4.00000	\$0.26	\$1.04
Parts	1/2" NC GR8. HEX NUT - GR8NCNUT12	2.00000	\$0.24	\$0.48
Parts	1/4" WIRE LOOM - 83-8003	6.00000	\$0.26	\$1.56
Parts	1/4" NF GR5. NYLOC NUT - NYLOCKNF14	3.00000	\$0.05	\$0.15
Parts	12" BLACK CABLE TIES - 83-6021	15.00000	\$0.09	\$1.35
Parts	14.5" BLACK CABLE TIE - CTB14120-100	10.00000	\$0.17	\$1.70
Parts	PTO GASKET 6 HOLE .020 - 35P9-2	1.00000	\$4.11	\$4.11
Labor	Correction: Powertrain - Clutch/ Transmission/ Aux / Driveline/ Differentials/ Axles / Clutch and Transmission - Service / repair / shifter / controls / Clutch Inspection For Reuse (Transmission already removed)	3.00000	\$135.00	\$405.00

*If clutch is worn more than 50% or showing evidence of fatigue -recommend replacing

INSPECT Clutch and Components while transmission is out

Inspect flywheel for machining and runout Requires machining

- check rear engine seal for leaks GOOD

- check engine mount condition GOOD

Repairs required:

1. Install new clutch assembly
2. Machine Flywheel - Completed: 11/18/2025

Parts	FLYWHEEL RESURFACE - FLYWHEEL RESURFACE	1.00000	\$208.75	\$208.75
			Subtotal	\$13,020.34

Complaint: Diagnose - Air Tank Leaking - Requires replacement (Pictures attached of tank)

Cause: Customer request **Type:** Preventive maintenance

(Inspection)

Labor	Correction: Brake Components - Air Brake Systems / Air Brake Supply and Control Systems - Compressor/ Dryer/ Tanks/ Valves/ Actuators/ Plumbing / Diagnose - Air Tank Leaking - Requires replacement	2.00000	\$135.00	\$270.00
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LH air tank in frame is leaking

-remove and replace air tank

-Remove, clean and swap fittings

-Cut off old hangers and replace when installing new tank

-air up and test for leaks-good - Completed: 11/18/2025

Parts	TANK-AIR ALUM 9.5" X 24" - K239-2835	1.00000	\$1,695.00	\$1,695.00
Parts	BRACKET-AIR TANK - 1809B	2.00000	\$62.37	\$124.74
Parts	1/4" MPT HEX HEAD PLUG - 121-B	1.00000	\$0.80	\$0.80
Parts	3/8" X 1" NC GR8. BOLT - GR8NC381	4.00000	\$0.36	\$1.44
Parts	3/8" GR8. FLAT WASHER - GR8FW38	8.00000	\$0.09	\$0.72
Parts	3/8" NC GR5. NYLOC NUT - NYLOCKNC38	4.00000	\$0.16	\$0.64
			Subtotal	\$2,093.34

Complaint: Coolant Leaks

1. Coolant Reservoir Pin Hole Leak Requires Replacement
2. Reposition thermostat housing 90 not lined up/leaking
3. Replace Large Straight Line Water Manifold on RH Side Frame

Cause: Customer request Type: Preventive maintenance

(Inspection)

Labor	Correction: Engine / Engine Cooling System / Coolant Leaks	2.50000	\$135.00	\$337.50
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1. Coolant Reservoir Pin Hole Leak Requires Replacement

-drain coolant

-remove and replace coolant reservoir

-install new coolant hose was rubbed thru to cords in couple spots

2. Reposition thermostat housing 90 not lined up/leaking

-with coolant out reposition so clamps can be in proper location

3. Replace Large Straight Line Water Manifold on RH Side Frame

-remove and replace hose and clamps

-vacuum fill cooling system

pressure test system also had two leaks at lower radiator hose to engine connection

-tightened clamps and let sit for half hour no more leaks good - Completed: 11/18/2025

Parts	COOLANT RESERVOIR (PETERBILT/ KENWORTH) - 575.1023	1.00000	\$275.45	\$275.45
Parts	1-1/4" SILICONE HEATER HOSE - 76125	17.00000	\$1.57	\$26.69
Parts	5/2/64" - 1-48/64" HOSE CLAMP - HS-20	2.00000	\$1.37	\$2.74
Parts	5/16" - 5/8" HOSE CLAMP - MH-4	1.00000	\$1.23	\$1.23
Parts	1" SILICONE HEATER HOSE - 5526-100	3.00000	\$9.26	\$27.78
Parts	H.D. EXT LIFE RED PREMIXED 50/50 COOLANT - 16-834	1.00000	\$11.01	\$11.01
			Subtotal	\$682.40

Unit: 801 VIN: 1NKDX4TX8DR958686
License Plate: (AB) CFJ 2452
2013 Kenworth T8 Series
Chassis: 151,023 Kilometers
Engine: 9,309 Hours

Labor	\$3,118.50
Parts	\$12,677.58
Shop Supplies	\$218.30
Pre-Charge Subtotal	\$16,014.38
GST (5% of \$16,014.38)	\$800.72
Total	\$16,815.10
Payments & Credits	\$0.00
Balance Due	\$16,815.10

WE ACCEPT DEBIT AND CREDIT CARD PAYMENT

I hereby authorize the above repair work to be done along with the necessary material and hereby grant you and/or your employees permission to operate the vehicle described for testing and/or inspection.

Express mechanic's lien is hereby acknowledged on above vehicle to secure the amount of the repairs there to.

All parts removed will be discarded unless instructed otherwise: save all parts ____.

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