



Inter-Rail Transport
1405 90th Avenue
Edmonton, Alberta, T6P 0C8
CA
7804647046

Work Order Number: #5447
Invoice Number:
PO Number:

031-3

WORK ORDER

WORK ORDER DETAILS

Issue Date:	Mon, Mar 17, 2025 9:45 AM	1035 2013 Kenworth W900
Scheduled Start Date:		VIN/SN: 1XKWD40X3DJ964311 License Plate: U37644
Actual Start Date:	Mon, Mar 17, 2025 11:35 AM	Operator: N/A
Expected Completion Date:		Type: Semi Truck Group: Heavy Duty IRT /
Actual Completion Date:	Fri, Mar 21, 2025 4:15 PM	Odometer: 1,695,385km (voided meter) Secondary Meter: 32,734.5hr (voided meter)
Duration:	4 days 4 hrs 40 mins	
Repair Priority Class:	Scheduled	
Status:	Completed	
Issued By:	SHOP1	
Assigned to:	Kohl Dolph	
Vendor:		
Labels:		

Date on Bill / Invoice:

Repair Type:

LINE ITEMS

Item	Labor	Parts	Subtotal
17 Truck labor	\$1,160.00	\$0.00	\$1,160.00
Kohl Dolph (Contact)	29 hrs \$40.00		\$1,160.00

PARTS (not linked to a Service Task)

Part	Quantity	Unit cost	Subtotal
3101268 (Part) · Inter-Rail Transport Turbo Drain Gasket	1 ea	\$7.71	\$7.71
QWNC1212FP (Part) · Inter-Rail Transport 3/4" STEEL WING COUPLER X 3/4" FEMALE NPT	1 ea	\$36.43	\$36.43
QWNN1212FP (Part) · Inter-Rail Transport 3/4" BRASS WING NIPPLE X 3/4" FEMALE NPT	1 ea	\$24.29	\$24.29

Part	Quantity	Unit cost	Subtotal
❏ QWN12DC (Part) · Inter-Rail Transport 3/4" WING NUT - DUST CAP	1 ea	\$10.16	\$10.16
❏ QWN12DP (Part) · Inter-Rail Transport 3/4" WING NUT - DUST PLUG	1 ea	\$14.50	\$14.50
❏ 3684359CUM (Part) · Inter-Rail Transport Exhaust Outlet Connection Gasket	1 ea	\$16.70	\$16.70
❏ 4298975 (Part) · Inter-Rail Transport Turbo Stud Nut	1 ea	\$13.57	\$13.57
❏ 4298975 (Part) · Inter-Rail Transport Turbo Stud Nut	3 ea	\$13.45	\$40.35
❏ 4298242 (Part) · Inter-Rail Transport Turbocharger Mounting Stud	2 ea	\$21.75	\$43.50
❏ 3695041CUM (Part) · Inter-Rail Transport GASKET,TURBOCHARGER	1 ea	\$22.02	\$22.02
❏ 3682940 (Part) · Inter-Rail Transport GASKET EXHAUST MANIF	1 ea	\$27.79	\$27.79
❏ 5486657 (Part) · Inter-Rail Transport GASKET,EXHAUST MANIFOLD	4 ea	\$27.04	\$108.16
❏ 4955831CUM (Part) · Inter-Rail Transport KIT OIL COOLER	1 ea	\$756.63	\$756.63
❏ 3689755 (Part) · Inter-Rail Transport Oil Cooler Housing Gasket	1	\$142.79	\$142.79
❏ 3411881 (Part) · Inter-Rail Transport KING-RETAINING	1 ea	\$6.15	\$6.15
❏ 4952629CUM (Part) · Inter-Rail Transport 4952629CUM	1 ea	\$293.83	\$293.83
❏ 3089025CUM (Part) · Inter-Rail Transport O-Ring ISX 15 Oil Cooler Threaded Plug Thermostat Housing	1	\$18.48	\$18.48
❏ 3686409 (Part) · Inter-Rail Transport CONNECTION WATER TRANSFER	1 ea	\$329.95	\$329.95
❏ 3683607 (Part) · Inter-Rail Transport Seal	1 ea	\$7.01	\$7.01
❏ Water Pipe O-Ring (Part) · Inter-Rail Transport Water Pipe O-ring	2 ea	\$7.59	\$15.18
❏ 5658098CUM (Part) · Inter-Rail Transport O-Ring (Compressor Intake Pipe)	1 ea	\$3.12	\$3.12
❏ MC-400 (Part) · Inter-Rail Transport 4" U-bolt	2 ea	\$9.17	\$18.34

Part	Quantity	Unit cost	Subtotal
 90358B (Part) · Inter-Rail Transport 5" Aluminum Band Clamp	2 ea	\$11.17	\$22.34
 49035 (Part) · Inter-Rail Transport 5" Stainless Steel Flex pipe	1 ft	\$18.55	\$18.55
 CC2610XFLG (Part) · Inter-Rail Transport RESTORE COOLING SYSTEM CLEANER	2 ea	\$23.67	\$47.34
 FR1044 (Part) · Inter-Rail Transport Battery Disconnect Switch	1 ea	\$104.95	\$104.95
 HE5985 (Part) · Inter-Rail Transport Upper Rad Hose (2.5" accordion rings TRP Version)	1 ea	\$50.70	\$50.70
 G384-125 (Part) · Inter-Rail Transport 1-1/4" Silicone Coolant Hose (6")	1 ea	\$9.35	\$9.35
 561.75250 (Part) · Inter-Rail Transport POLYESTER REINFORCED ELBOW 4.5" 90°	1	\$46.63	\$46.63
 5458503RXCUM (Part) · Inter-Rail Transport TURBOCHARGER	1 ea	\$9,495.77	\$9,495.77
 If14000nnflg (Part) · Inter-Rail Transport Oil Filter	1 ea	\$44.57	\$44.57
 V50-1047-100200100 (Part) · Inter-Rail Transport HOSE-COOLANT MBEND 1-1/4"EPA-Y	1 ea	\$133.89	\$133.89
 C16-1001 (Part) · Inter-Rail Transport Cam Tube U-Bolt (Flat Inside)	1 ea	\$23.28	\$23.28
 2866337CUM (Part) · Inter-Rail Transport 5" Gasket - AFM	1 ea	\$19.68	\$19.68
 WF2127 (Part) · Inter-Rail Transport Filter Water Precharge	1 ea	\$31.65	\$31.65
 15w40 (Part) · Inter-Rail Transport 15w40 Oil	10 L	\$3.71	\$37.10

DESCRIPTION

oil in coolant inspected and found the oil cooler to be leaking internally, removed all parts, to access cooler removed cooler and inspected the cooling core and found the gaskets are what was leaking, removed and cleaned housing, replaced oil thermostat, still put a new core in. torqued into housing, reinstalled all parts with new seals. the turbo had a crack in it on the turbine side, tried to replace it with a used turbine but wasnt the same once i got it apart, ordered a new one, installed it, and rest of parts torqued them all into place. put a cleaner into coolant system cleaned out oil, then had replace all coolant lines except for bunk cooler lines. put more cleaner in system and cleaned it out again replaced coolant filter. filled with coolant and pressure tested, didnt find any leaks. exhaust leak under unit, relaced flex pipe and u bolt clamps for d/s exhaust pipe gong to stack. battery shut offs were seized, replaced one of them and the other one a i cleaned an freed up works good not, 2 lights out on front bumper, replaced lights and pig tails. tested and works. bunk heater not working said glow pin reset, reset computer cleared codes reset hours and worked after wards and tried several times and ran for an a hour and worked

SUMMARY

Subtotal	\$13,202.46
Labor	\$1,160.00
Parts	\$12,042.46
Labor Markup	+ \$0.00 (0.0%)
Parts Markup	+ \$0.00 (0.0%)
Warranty Credits	- \$0.00 (Fixed)
Discount	- \$0.00 (0.0%)
Tax	+ \$0.00 (0.0%)
Total	\$13,202.46



Inter-Rail Transport Ltd
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 Work: 780-464-7046 Fax: 780-464-1148
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Equipment: 1035

Work Order #: 54272
 Date: 6/8/2022

Completed Date: 6/8/2022

Year: 2013
 Make: Kenworth
 Model: W900
 Odometer: 1,346,524
 Hours: 26,359

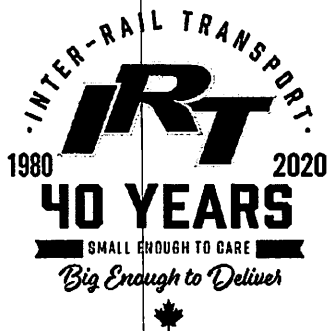
Serial Number: 1XKWD40X3DJ964311

Labor

Category	Description	Mechanic	Quantity/Hours	Price/Rate	Amount
01 Accessories	Labour	Brayden Harper	1.75	40.00	70.00
07 Engine	Labour	Brayden Harper	4.50	40.00	180.00
07 Engine	Labour	Brayden Harper	1.50	40.00	60.00
07 Engine	Labour	Brayden Harper	3.00	40.00	120.00
07 Engine	Labour	Brayden Harper	1.00	40.00	40.00
07 Engine	Labour	Brayden Harper	1.50	40.00	60.00
07 Engine	Labour	Brayden Harper	3.67	40.00	146.80
07 Engine	Labour	Brayden Harper	4.00	40.00	160.00
07 Engine	Labour	Brayden Harper	5.75	40.00	230.00
07 Engine	Labour	Brayden Harper	1.50	40.00	60.00
07 Engine	Labour	Brayden Harper	3.83	40.00	153.20
07 Engine	Labour	Brayden Harper	4.00	40.00	160.00
07 Engine	Labour	Brayden Harper	4.33	40.00	173.20
07 Engine	Labour	Brayden Harper	4.00	40.00	160.00
07 Engine	Labour	Brayden Harper	3.00	40.00	120.00
07 Engine	Labour	Brayden Harper	3.00	40.00	120.00
07 Engine	Labour	Brayden Harper	4.00	40.00	160.00
07 Engine	Labour	Brayden Harper	3.50	40.00	140.00
07 Engine	Labour	Brayden Harper	4.00	40.00	160.00
07 Engine	Labour	Brayden Harper	4.00	40.00	160.00
07 Engine	Labour	Brayden Harper	4.00	40.00	160.00
07 Engine	Labour	Brayden Harper	4.00	40.00	160.00

Parts

Description	Quantity/Hours	Price/Rate	Amount
INTAKEPLUGSM, EGR BLOCK PLATE	1.00	103.69	103.69
3680882CUM, Screw Captive Washer	13.00	7.78	101.14
3685173CUM, Front Main Crank Seal	1.00	79.07	79.07
3685556CUM, Gasket	1.00	14.58	14.58
4393089CUM, Gasket Gear Housing	1.00	87.92	87.92
5414049CUM, Fuel Pump Gasket	1.00	30.85	30.85
5440813CUM, Gasket ACC Drive Support	1.00	18.17	18.17
5484228CUM, Front Exhaust Rocker Lever	3.00	131.82	395.46
5484229CUM, Rear Exhaust Rocker Lever	3.00	131.82	395.46
5484230CUM, Front Intake Lever Rocker	3.00	145.23	435.69
5484231CUM, Rear Intake Rocker Lever	3.00	140.21	420.63



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Parts

Description	Quantity/Hours	Price/Rate	Amount
5658203RXCUM, HEAD, CYLINDER	1.00	6,706.83	6,706.83
5693737CUM, KIT, CLASSIC OVERHAUL	1.00	8,492.02	8,492.02
RE024P, ALTERNATOR-160AMP PAD MOUNT 105C	1.00	311.45	311.45
5579417PXCUM, Injector Kit	4.00	1,452.88	5,811.52
05-6224, 24mm 6 point impact socket	1.00	37.70	37.70
3963988CUM, Washer Sealing	4.00	4.70	18.80
3963991CUM, Washer Sealing	4.00	6.15	24.60
3688012CUM, Oil Drain Tube	1.00	50.02	50.02
3688398CUM, TUBE FUEL SUPPLY	1.00	86.90	86.90
4307482RXCUM, Mechanical Fuel Pump	1.00	692.65	692.65
2872513CUM, Fuel Pump head Gasket	1.00	27.60	27.60
4928594CUM, exhaust gas pressure sensor	1.00	168.45	168.45
3678804CUM, SCREW HEX FLANGE HEAD CAP	4.00	17.04	68.16
3678506CUM, HEAD CAP SCREW	22.00	23.87	525.14
3688089CUM, Tube Fuel Supply	1.00	105.00	105.00
3691476CUM, Dummy Non Serviceable Crank Case "Filter"	1.00	109.53	109.53
HYDX, Hydraulic Hose Assembly	1.00	30.16	30.16
F16-6009031B413SB0, 4.5" - 4" Constant Torque Hose Clamp	4.00	15.74	62.96
WF2127FLG, Filter Water Precharge	1.00	25.53	25.53
561.16400, CAC HOSE COLD CHARGE AIR	3.00	23.71	71.13
CB12255, Relay	1.00	17.48	17.48
5298564CUM, Service Shim 0.020"	6.00	64.17	385.02
5575183CUM, EGR COOLER DELETE TUBE PIPE Water Transfer Tube	1.00	148.48	148.48
4367122CUM, EGR COOLER DELETE TUBE PIPE Water Transfer Tube	1.00	242.99	242.99
5599284RXCUM, Lubrication Pump	1.00	851.42	851.42
3688113CUM, Plug-Gear cover	1.00	15.51	15.51
3075658, SEAL O-RING	1.00	8.98	8.98
3678846CUM, Seal O-Ring	1.00	15.75	15.75
HHA-TBR-03, Hose Assembly (engine)	1.00	18.20	18.20
F69-6003-122, Compressor Assy	1.00	701.88	701.88
ST6002, Coolant Reservoir / Surge Tank	1.00	242.28	242.28
15W-40, Bulk Oil	48.00	3.58	171.84
3163075, Cummins Red Paint	5.00	27.29	136.45

Sublet

Category	Description	Quantity/Hours	Price/Rate	Amount
	Invoice: 48302 Supplier: Dave's Diesel Repair	1.00	600.00	600.00

Task 1

- We had just replaced the A/C compressor as the clutch was seized, now it came in and the A/C clutch would not engage. Using power directly from the batteries the clutch would not engage at all. Ordered a new compressor and will return the other new one for warranty while rebuilding the engine.

Task 2

- Operator complaint that he was losing coolant and had no visual leaks. Pressure tested cooling system and it held pressure. No excessive smoke from the exhaust with pressure on the system. Found evidence of coolant coming out of the pressure valve for the coolant reservoir, we added a line to the pressure valve into a water bottle and took the unit for



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a test drive and nothing came out of the over flow. We left the bottle on the unit and told the operator to go work and after one day of driving it had filled the bottle with coolant meaning the coolant system was pressurizing above 15psi on its own and letting coolant out the over flow. Decision was made to remove the cylinder head to further investigate the cause. Removed all accessories and components necessary to get the cylinder head off. When removing the head bolts two bolt heads were broken off and one bolt was seized in place. Had to drill and use a bur bit to brake the bolt head off the seized bolt. Than lifted the head up over the bolts still threaded into the head and found that the head gasket was blown out where the two head bolts were broken. Cleaned the deck surface and found that the liner protrusion was at minimum spec on cylinder 3 and 4 on the intake side. Decision was made to complete a full in-frame engine over haul and cut the counter bores. Disassembled bottom end of the engine, removed front gear housing as it was leaking on the driver side next to the block, removed hi pressure fuel pump head to inspect rollers and tappets to make sure they were updated and in good working order. Cleaned all components and ordered necessary parts. Cut blocks counter bores to accept service shims and to get liner protrusion up to 0.012"-0.013" across the whole block. Than Cleaned block inside and out extensively to get ready to assemble engine. Completed bottom end bearing rollm checked crank end play with was 0.010" after new bearings. Assembled and installed liners, pistons/connecting rods, new updated oil pump and oil pick up tube. We used belzona to level a wear spot on the front right of the engine block near the coolant port in the block, once the belzona was dried we leveled the added material the best we could, when installing the head gasket we also added some aviation gasket maker to that corner to make sure it seals nicely. Installed cylinder head and torqued into place with all new head bolts as 12 of 26 were bad. installed front cover with all new gaskets and timed the engine. Completed assembling the top end we added all new updated intake and exhaust rockers. we inspected exhaust jake rocker components to confirm no broken springs. Completed valve set. installed 4 new injectors in cylinders 1,4,5,6 than used the old injectors in 2 and 3. Than installed all outside engine components as needed. Replaced blocked off EGR cooler with water transfer tube to connect the water pump back to the rear of the block. All operations were done as per Cummings guidelines. Took unit for drive and it worked perfectly, no leaks or issues.

DAVE'S DIESEL REPAIR

CU510-INJECTOR, COMMON RALL (TEST)

CLEAN/INSPECT/TEST SET OF (6) INJECTORS - INJECTOR(S) #1, #4, #5 FAIL - #2 & #3 ARE OK - #5 IS AT THE DISCRETION OF THE CUSTOMER TO RE-USE

LABOUR

TECHNICIAN: RG2204 / SERVICE ADVISOR: BB2203

Total Labor	2,953.20
Total Parts	28,465.09
Total Returns	.00
Total Sublet	600.00
Shop Supplies	.00
Invoice Total	32,018.29