



Cariboo Rail Hi-Rail Inspection

J22-13
MAY

Equipment Manager 250-612-7010

DATE: June 08/25

VIN #: 1FD0W5HT6KEE15139

Job Number: B.C. CN-4152-HR

Unit #: 52

Odometer: 250703.0 Km MI

Vendor: Cariboo Rail

Front Hirail: Make: RAFNA Model: Hi Rail

S/N: 017228

Rear Hirail: Make: RAFNA Model: Hi Rail

S/N: 017229

K DESCRIPTION

#	Items to Inspect	"R" Repair					Notes
		P	F	R	A	N	
1	Manufacturer Manual						
2	Lights, Beacon	✓					
3	Back up alarm	✓					
4	Measure Tire Thread Depth	✓					<i>new</i>
5	Tire Air Pressure						
6	Front & Rear Bellows	✓					<i>replaced rear</i>
7	Rubber Jounce	✓					
8	Steering Lock	✓					
9	Steering Stoppers	✓					
10	Suspension Locks / Rods	✓					
11	Lock Pins	✓					
12	Electrical box / Wiring	✓					
13	Guide Wheels for Wear	✓					
14	Guide Wheel Bearings / Seals	✓					
15	Spindles	✓					
16	Guide Tube & Pivot	✓					
17	Lube Complete Hirail	✓					
18	Rail Sweeps (1/8 Gap)	✓					<i>replace left front</i>
19	Hi rail Brakes	✓					<i>replaced Hydraulic Brake cylinder</i>
20	Hi Rail Pressure						
21	String Line (if required)	✓					
22	Hirail Weight, (Record next page)						
23	Hirail Height, (Record next page)						
24	Torque wheel Nuts _____ lbs						
25	Air System Operation						
26	Air System Components						
27	Hydraulic System Operation	✓					
28	Hydraulic Components	✓					<i>replaced hose to hose rear</i>
29	Creep Drive Operation						
30	Track Test						

P F R A N

Inspected By: Brent Donaldson

Signature: _____

CARIBOO RAILWAY

UNIT 52 – ANNUAL RAIL INSPECTION

- REMOVE, INSPECT AND REPLACE ALL WHEEL BEARINGS
- FOUND FRONT RAIL GEAR HAD BEEN HIT CAUSING DAMAGE TO THE RIGHT-HAND GUIDE, BOTH GUIDE BELLOWS RIPPED CAUSING DIRT AND RUST IN THE GUIDE TUBE, BROKEN / CRACKED BRAKE SHOE ON RIGHT SIDE, VENT CAP ON HYDRAULIC BRAKE RESERVOIR BROKEN – CAUSING WATER / ICE TO GET INTO BRAKE SYSTEM, LATCHING MECHANISM WORN - NOT ALLOWING FRONT GEAR TO LATCH IN UP POSITION, EMERGENCY HAND PUMP IS BROKEN
- FOUND REAR RAIL GEAR WOULD NOT RAISE AND LATCH INTO POSITION, FOUND BOTH GUIDES SEIZED, REAR LATCHING MECHANISM BROKEN AND OUT OF ADJUSTMENT, BOTH BELLOWS TORN ALLOWING DIRT/RUST TO SEIZE GEAR FROM MOVING PROPERLY, REAR SPLIT BEARINGS WORN AND LACK OF GREASE
- SEVERE LACK OF GREASE AND MAINTENANCE, WHEEL BLEEDERS HAD BEEN REPLACED WITH GREASE FITTINGS NOT ALLOWING THE WHEELS TO BE GREASED PROPERLY – CAUSING EXCESSIVE BEARING WEAR

REPAIRS REQUIRED:

- REPLACE FRONT RIGHT BRAKE PAD (CRACKED AND MISSING PORTION)
- REPLACE BOTH FRONT BELLOWS ON GUIDE TUBES (RIPPED AND NOT ATTACHED)
- RIGHT GUIDE TUBE STICKING (BENT)
- FRONT AXLE LATCH DAMAGED
- BLEEDER VENTS ON WHEEL CAPS (NOT GREASE FITTINGS)
- BROKEN BRAKE RESERVOIR CAP
- DRAIN BRAKE RESERVOIR AND BLOW OUT LINE, REPLACE OIL (WATER HAS GOT INTO THE SYSTEM AND FROZEN)
- EMERGENCY HAND PUMP IS SEIZED AND LINKAGE BROKEN
- REAR GEAR WILL NOT RAISE TO LATCHED POSITION
- BOTH REAR GUIDE TUBES SEIZED
- REAR LATCH IS BROKEN
- BOTH REAR BELLOWS
- REPLACE REAR SPLIT BEARINGS ON PIVOT PINS

PARTS:

- BRAKE PAD (1)
- WHEEL SEALS (4)
- WHEEL BEARINGS (8)
- FRONT BELLOWS (2)
- REAR BELLOWS (2)
- EMERGENCY HAND PUMP LINKAGE (1)
- BLEEDER VENTS (6)
- WHEEL GASKETS (4)
- MISC BOLTS
- HYDRAULIC BRAKE TANK CAP VENT (1)

RPM SPECIALTEIS # 1299

- LOCK PINS FOR FRONT AXLE LOCK (2)
- REAR SPLIT BEARINGS (2)
- 1 1/8 ROD FOR REAR LATCH
- MISC STEEL FOR FRONT LATCH
- FRONT RIGHT GUIDE TUBE (1)



5909 Great Bear Street
Prince George, B.C.
V2N 6R2
Canada

Invoice

Invoice No.	2024156
Invoice Date	2024-03-21
Due Date	2024-04-20
Invoice Sent Via	Email Only

Invoice To:

Caribou Railroad Contracting Corp.
#117 - 3030 Pandosy St.
Kelowna, BC V1Y 0C4

Ship To

P.O. NO.		Customer Contact		Project / RFP ID		RTC Rep	
						PK	
Service Date	Description	Qty	Rate	U/M	Amount	Tax	
2024-03-20	Rail Gear Inspection Unit #52						
	Mechanic Labour - Wash Truck	0.5	148.50	hr	74.25	G	
2024-03-20	Mechanic Labour - Rail Gear Inspection	5	148.50	hr	742.50	G	
2024-03-20	Mechanic Labour - Repair via Tie-up Rear Bellows	1	148.50	hr	148.50	G	
	Materials						
2024-03-20	Seals - 471271	4	24.661		98.64	G	
2024-03-20	Hose Clamp	4	3.445		13.78	G	
2024-03-20	Grease per Tube	3	16.99		50.97	G	
	Subtotal				1,128.64		
	Shop Materials		5.00%		56.43	G	
		Job Code:		BC.CN.UN52.HR			
		Task Code:		A16NB			
		Equipment Unit #:		52			
		Comment:		HI-RAIL INSPECT			
				Rec Mar 22/24			

DocuSigned by:

Tammy Froehlich

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2024-03-22

Payments / Credits

CAD 0.00

TOTAL BEFORE APPLICABLE TAX & LEVIES

CAD 1,185.07

RTC - GST No.	RTC - PST No.	Sales Tax Summary	GST@5.0%	CAD 59.25
836565341 RT0001	1002-1448		Total Tax	CAD 59.25

Thank you for your business.

Balance Due

CAD 1,244.32

RTC Contact Information:	Phone #	Fax #	E-mail	Web Site
	250-614-9182	604-357-1100	account.services@rtcrailsolutions.net	www.rtcrailsolutions.net

PK HyRail

High Railwear Specialists

RAIL GEAR INSPECTION

COMPANY	UNIT NO.	ORDER NUMBER	DATE YY-MM-DD
Caribou Rail	52		24/03/20
ODOMETER READING	LICENSE NO.	VIN NO.	
215674	CR4 3561	1FD0W5HT6KEE15139	

RAIL GEAR

RAIL GEAR MAKE FRONT	<i>HyRail</i>	MODEL	
RAIL GEAR MAKE REAR	<i>HyRail</i>	MODEL	

<input checked="" type="checkbox"/>	1	CHECK TIRE WEAR AND ADJ. AIR PRESURE. DO NOT EXCEED MAXIMUM PRESSURE INDICATED ON RIMS.
<input checked="" type="checkbox"/>	2	CHECK TRUCK WHEEL RIMS AND SPACERS FOR DAMAGE, DEFORMATION OR CRACKS WITHOUT REMOVING WHEELS (UNLESS DEFECT SUSPECTED).
<input checked="" type="checkbox"/>	3	CHECK FOR PROPER TIGHTENING SPEC. STICKER ON EACH NON-OEM WHEEL RIM.
<input checked="" type="checkbox"/>	4	TORQUE ALL VEHICLE WHEEL NUTS TO APPROVED SPECIFICATIONS. <u>150</u>
<input checked="" type="checkbox"/>	5	CHECK CROSS CHANNEL, TORQUE AND WHEEL ARMS FOR STRAIGHTNESS AND CONDITION.
<input checked="" type="checkbox"/>	6	CHECK FOR WEAR IN OUTER BEARING, TUBE & SHAFT.
<input checked="" type="checkbox"/>	7	CHECK ELECTR. ISOLATION OF EACH GUIDE WHEEL TO FRAME; WHERE APPLICABLE - AS PER MANUFACTURER'S SPECIFICATIONS
<input checked="" type="checkbox"/>	8	PULL ALL HI-RAIL WHEELS, WHICH ARE NOT MOUNTED ON PERMANENTLY SEALED BEARINGS, NOTING CONDITION OF TREAD AND FLANGE WEAR.
<input checked="" type="checkbox"/>	9	CHECK SPINDLES FOR SEAL SURFACE WEAR AND CONDITION, ETC.
<input checked="" type="checkbox"/>	10	GUIDE WHEEL BEARINGS: REMOVE, CLEAN, INSPECT, REPACK & REPLACE SEALS; IF SERVICEABLE.
<input checked="" type="checkbox"/>	11	IF EQUIPPED WITH HI-RAIL BRAKES: CHECK COMPONENTS, OPERATION AND ADJUST IF NECESSARY.
<input checked="" type="checkbox"/>	12	CHECK GUIDE WHEEL ADJUSTMENTS: HEIGHTS AND WEIGHTS.
<input checked="" type="checkbox"/>	13	CHECK SET SCREW ADJUSTMENTS ON TUBE AND SHAFT ARM.
<input checked="" type="checkbox"/>	14	CHECK RAIL SWEEPS FOR WEAR AND ADJ.
<input checked="" type="checkbox"/>	15	CHECK FOR CRACKED OR MISSING DERAIL SKIDS.
<input checked="" type="checkbox"/>	16	CHECK LOCKING PIN LINKAGE FOR WEAR, OPERATION AND MISSING KNOBS.
<input checked="" type="checkbox"/>	17	CHECK HANDLE FOR LOCATING PIN WEAR AND GENERAL CONDITION.
<input checked="" type="checkbox"/>	18	CHECK MUDFLAP CONDITION.
<input checked="" type="checkbox"/>	19	CHECK FRONT FENDERS. (IF EQUIPPED).
<input checked="" type="checkbox"/>	20	CHECK ACCUMULATOR SYSTEM (IF EQUIPPED), AND AIR OR GAS PRESSURE. (ON MODEL 66B: AIR PRESSURE TO BE ADJUSTED TO 100 PSI)
<input checked="" type="checkbox"/>	21	CHECK ALL HYDRAULIC VALVES AND CYLINDERS FOR SECURITY AND OPERATION.
<input checked="" type="checkbox"/>	22	CHECK HI-RAIL HYDRAULIC PUMP PRESSURE AND RECORD: _____
<input checked="" type="checkbox"/>	23	IF EQUIPPED WITH HYDRAULIC TOOL CIRCUIT; PROCEED TO THE: "HYDRAULIC TOOL CIRCUIT TEST"
<input checked="" type="checkbox"/>	24	CHECK HYDRAULIC SYSTEM FOR LEAKS AND FRAYED HOSES.
<input checked="" type="checkbox"/>	25	CHECK TIE ROD ENDS (5080).
<input checked="" type="checkbox"/>	26	OIL ALL HYDRAULIC CYLINDERS (5080). DMF 1630-1650 - CHECK PINS ON CYLINDERS AND LUBE
<input checked="" type="checkbox"/>	27	CHECK ROCKER ARM PIVOTS AND AIR CYLINDER SYSTEM (5080).
<input checked="" type="checkbox"/>	28	STRINGLINE UNIT TO CHECK RAIL GEAR TO CHASSIS ALIGNMENT.
<input checked="" type="checkbox"/>	29	GREASE COMPLETE UNIT. * USING EPIC EP102 GREASE * OR EQUIVALENT.
<input checked="" type="checkbox"/>	30	CHECK AUTO-GREASING SYSTEM. CPL LOWTEMP GREENLUBE GREASE ONLY. IS TO BE USED IN THIS AUTO-GREASING SYSTEM
<input checked="" type="checkbox"/>	31	CHECK ROTATING LIGHT AND BACK UP ALARM.
<input checked="" type="checkbox"/>	32	TRACK TEST UNIT IF REQUIRED, BASED ON DRIVER'S REPORT OR REPAIRS PERFORMED.
<input checked="" type="checkbox"/>	33	INSTALL "NEXT SERVICE DUE" STICKER IN CAB.

	SIGNATURE	MECHANIC	INSPECTION PASS / FAIL
	<i>[Signature]</i>	<i>Peter Kelly</i>	<input checked="" type="checkbox"/>

ITEMS MARKED WITH AN "X" DID NOT PASS. REFER TO DOCUMENTATION FOR DETAILS / NA=NOT APPLICABLE

Rail Gear Pressures

	Left	Right
Front		
Rear		

NOTES:

Rear Bellows Next inspection

RPM Specialties

6190 GISCOME RD
 PRINCE GEORGE BC V2N6T4
 250-301-6316
 rpmspecialties@protonmail.com
 GST/HST Registration No.:
 892309295RT0001
 PST BC Registration No.: 1142-0041

**INVOICE****BILL TO**

Cariboo Central Railway
 #209-307 Banks Rd
 Kelowna BC V1X6A1

INVOICE # 1299**DATE 02/28/2022****DUE DATE 03/15/2022****TERMS Net 15**

DESCRIPTION	AMOUNT
Charges	
ANNUAL RAIL INSPECTION REPORT - SEE ATTACHED LIST / REPORT	75.00
REMOVE REAR GEAR AND REPAIR AS REQUIRED	675.00
RIGHT FRONT GUIDE - 15577	830.27
BOLTS, CLAMPS	172.95
TANK VENT	25.95
1 1/8 LATCHING PINS (2)	21.38
GREASE FITTINGS	45.72
GREASE, ATF BRAKE OIL	131.02
Subtotal: Charges	1,977.29
Billable Time	
ANNUAL RAIL INSPECTION, PERFORM INSPECTION AS PER CN FORM, REMOVE WHEELS TO INSPECT BEARINGS, MAKE LIST OF PARTS / REPAIRS NEEDED, ORDER PARTS	600.08
REMOVE BEARINGS, CLEAN UP TO INSPECT - BEARINGS NEED REPLACING	47.50
- FOUND FRONT RAIL GEAR HAD BEEN HIT CAUSING DAMAGE TO THE RIGHT-HAND GUIDE, BOTH GUIDE BELLOWS RIPPED CAUSING DIRT AND RUST IN THE GUIDE TUBE, BROKEN / CRACKED BRAKE SHOE ON RIGHT SIDE, VENT CAP ON HYDRAULIC BRAKE RESERVIOR BROKEN - CAUSING WATER / ICE TO GET INTO BRAKE SYSTEM, LATCHING MECHANISM WORN - NOT ALLOWING FRONT GEAR TO LATCH IN UP POSITION, EMERGENCY HAND PUMP IS BROKEN	175.00
REMOVE FRONT GEAR AND REPAIR AS REQUIRED	1,587.50
REMOVE FRONT GEAR AND REPAIR AS REQUIRED	1,212.83

DESCRIPTION	AMOUNT
- FOUND REAR RAIL GEAR WOULD NOT RAISE AND LATCH INTO POSITION, FOUND BOTH GUIDES SEIZED, REAR LATCHING MECHANISM BROKEN AND OUT OF ADJUSTMENT, BOTH BELLOWS TORN ALLOWING DIRT/RUST TO SEIZE GEAR FROM MOVING PROPERLY, REAR SPLIT BEARINGS WORN AND LACK OF GREASE	356.25
- SEVERE LACK OF GREASE AND MAINTENANCE, WHEEL BLEEDERS HAD BEEN REPLACED WITH GREASE FITTINGS NOT ALLOWING THE WHEELS TO BE GREASED PROPERLY – CAUSING EXCESSIVE BEARING WEAR	
REMOVE REAR GEAR AND REPAIR AS REQUIRED	1,187.50
REMOVE REAR GEAR AND REPAIR AS REQUIRED	1,022.50
Subtotal:	6,189.16


UNIT 52 - ARI / REPAIRS	SUBTOTAL	8,166.45
	GST @ 5%	408.37
	PST (BC) @ 7%	571.69
	TOTAL	9,146.51
	BALANCE DUE	\$9,146.51

Job Code: AB . CN . UN52 . HR

Task Code: A16NB

Equipment Unit #: 52

Comment: HI-RAIL REPAIRS

DocuSigned by:

 275231AF148B49C...

Mar 11, 2022

Rec Mar 7/22