

HERZOG SERVICES OF CANADA LTD

6800 39TH STREET, LEDUC AB T9E 0Z4
PHONE: 780-955-3677

CUSTOMER NUMBER 11000

INVOICE #11257

TO: ALSTOM TRANSPORT CONFEDERATION LINE
805 BELFAST ROAD
OTTAWA, ON K1G 0Z4

Date:	Job #
4/30/2020	72179

mariano.garcia@alstomgroup.com
yoann.frederic.fleurance@alstomgroup.com

Terms: Due Upon Receipts

ULTRASONIC RAIL TESTING PERFORMED PER OUR SERVICE AGREEMENT
UNDER CONTRACT #8919010 **P.O. #4100377700**

Description	Quantity	Price	Amount
TESTING PER DAY	2	\$4,826.16	\$9,652.32
HOURLY TESTING PER DAY	5.9	\$603.27	\$3,559.29
OVERTIME HOURS	3.5	\$904.91	\$3,167.18
MOBILIZATION	2	\$3,466.13	\$6,932.26

SUBTOTAL USD \$23,311.05

EXCHANGE RATE 1.4058

SUBTOTAL CAD \$32,770.67

ON HST 13% \$4,260.19

TOTAL AMOUNT DUE IN CANADIAN DOLLARS \$37,030.86

HRZ411
Miles Tested 21.046
Defect Found 1

GST/HST: 840577043RT0001

QST: 1219863281TQ0001

WIRE INSTRUCTIONS:

UNIT # 6, 1408-8TH STREET

NISKU, AB T9E 7M1

SWIFT CODE: NOSCCATT

ACCT# 476961619519

BANK OF NOVA SCOTIA

44 KING STREET WEST

TORONTO ONTARIO M5H 1H1

ALL ACCOUNTS NOT PAID WITHIN THE TERMS ABOVE WILL BE SUBJECT TO A FINANCE CHARGE OF 1.5% PER MONTH.

Notice to Owner

FAILURE OF THIS CONTRACTOR TO PAY THOSE PERSON SUPPLYING MATERIAL OR SERVICES TO COMPLETE THIS CONTRACT CAN RESULT IN THE FILING OF A MECHANIC'S LIEN ON THE PROPERTY WHICH IS THE SUBJECT OF THIS CONTRACT PURSUANT TO CHAPTER 429 RSM AND OTHER APPLICABLE STATUTES IN OTHER STATES. TO AVOID THIS RESULT, YOU MAY ASK THIS CONTRACTOR FOR "LIEN WAIVERS" FROM ALL PERSON SUPPLYING MATERIAL OR SERVICES FOR THE WORK DESCRIBED IN THIS CONTRACT. FAILURE TO SECURE LIEN WAIVERS MAY RESULT IN YOUR PAYING FOR LABOR AND MATERIAL TWICE.

HERZOG

Herzog Services of Canada, Inc.
 6800 39th Street, Leduc, AB, T9E 0Z4
 Phone: (780) 955-3677 Fax: (780) 955-3674

Client: ALSTOM

Invoice #: 11257

Job #: 72179

Contract #:

HRZ411

Invoice Date: 4/30/2020

8919010

Test Vehicle:

Daily Testing Information

Date Tested	Miles Tested	Time Tested	Train Delay	Other Delay	Support Delay	Herzog Delay	Transfer Time	Runlight Time	Billable Time	Overtime Hours	Non-Bill Time	Total Time	Defects Found	AVG MPH	Daily Charge	Transfer Overtime	Billable Overtime	Total Billable	Status	Comments
4/17/2020	0.000	0:00	0:00	0:00	0:00	0:00	8:00	0:00	8:00	0:00	0:00	8:00	0	N/A	\$3,466.13	\$0.00	\$0.00	\$3,466.13	Mobilize	MOB
4/18/2020	10.477	4:54	0:54	1:54	0:00	0:00	0:00	3:48	8:00	3:30	0:00	11:30	0	2.100	\$4,826.16	\$0.00	\$3,167.18	\$7,993.34	Test	
4/18/2020	8.241	2:06	0:00	1:12	2:36	0:00	0:00	2:06	8:00	0:00	0:00	8:00	1	3.900	\$4,826.16	\$0.00	\$0.00	\$4,826.16	Test	
4/19/2020	2.328	1:54	0:06	1:36	0:00	0:00	0:00	2:18	5:54	0:00	0:00	5:54	0	1.200	\$3,559.29	\$0.00	\$0.00	\$3,559.29	Test	
4/20/2020	0.000	0:00	0:00	0:00	0:00	0:00	8:00	0:00	8:00	0:00	0:00	8:00	0	N/A	\$3,466.13	\$0.00	\$0.00	\$3,466.13	Mobilize	DE-MOB
5	21.046	8.90	1.00	4.70	2.60	0.00	16.00	8.20	37.90	3.50	0.00	41.40	1	2.400				\$23,311.05		

Monthly Totals

Dates Tested	Miles Tested	Time Tested	Train Delay	Other Delay	Support Delay	Herzog Delay	Transfer Time	Runlight Time	Billable Time	Overtime Hours	Total Time	Defects Found	AVG MPH	Avg Miles Tested Daily	Avg Cost Per Mile
5	21.046	8.90	1.00	4.70	2.60	0.00	16.00	8.20	37.90	3.50	41.40	1	2.400	4.21	\$1,107.62

Service Amount: \$20,143.87

Transfer Amount: \$0.00

Overtime Amount: \$3,167.18

Total Billable: \$23,311.05

INVOICE # 11257
72179 Hr411

Date Tested	Line Segment	Prov.	Miles Tested	Time Tested	Avg MPH Tested	Train	Other	Herzog Delay	Runlight Time	Service Time	Service Bonus Time	Defects Found	Daily Minimum	Herzog Delay Amount	Service Bonus Amount	Status	Vehicle	Technician	Total Billable Amount	Comments
4/17/2020	0 ON	ON	0.00	0:00	0.00	0:00	0:00	0:00	8:00	8:00	0:00	0.00	\$ 3,466.13	\$ -	\$ -		\$ 3,466.13	\$ -	\$ 3,466.13	MOB
4/18/2020	0 ON	ON	10.48	4:54	2.14	0:54	1:54	0:00	3:48	11:30	3:30	0.00	\$ 4,826.16	\$ -	\$ 3,167.18	Test	\$ 4,826.16	\$ -	\$ 7,993.34	
4/18/2020	0 ON	ON	8.24	2:06	3.92	0:00	1:12	0:00	2:06	8:00	0:00	1.00	\$ 4,826.16	\$ -	\$ -	Test	\$ 4,826.16	\$ -	\$ 4,826.16	
4/19/2020	0 ON	ON	2.33	1:54	1.23	0:06	1:36	0:00	2:18	5:54	0:00	0.00	\$ 3,559.29	\$ -	\$ -	Test	\$ 3,559.29	\$ -	\$ 3,559.29	
4/20/2020	0 ON	ON	0.00	0:00	0.00	0:00	0:00	0:00	8:00	8:00	0:00	0.00	\$ 3,466.13	\$ -	\$ -		\$ 3,466.13	\$ -	\$ 3,466.13	DE-MOB
5 DAYS			21.05	08:54	7.29	01:00	04:42	00:00	24:12	41:24	03:30	1.00	\$ 20,143.87	\$ -	\$ 3,167.18		\$ 20,143.87	\$ -	\$ 23,311.05	

5 DAYS
AVG MILES TESTED DAILY 4.21
AVG COST PER MILE \$ 1,107.41

HERZOG

HERZOG Services, INC.

600 39th Street, Ledec, AB T9E 0Z4

Phone: (780) 955-3677 Fax: (780) 955-3674

Client: ALSTOM

Test Car: HRZ411

Operator: BKM

Test Date: 04/17/2020

Crew: Bradley McCann

LINES TESTED

Line Segment:	Division:	Subdivision:	Location:	Remarks:
0	Ottawa	Ottawa	0 To 9999	407 Mobilization
				Will Start Main line Testing tonight April 18

MOVEMENT DETAIL

Line	Mode	Remarks	Time	Mile Beg	Post End	Track Dir	Type	Suf ID	Tested Miles	Min	Run-Light Non-Tran	Train	Delay Other	Supt Hzg	Non-Bill	Service Minutes
0	On Call	On Call	07:00													
0	Test	Main 01	07:00	0.000	0.000	-	E	M 01	0.000	0:00						0:00
0	Run-Light Transfer	Travel to Ottawa	07:00								8:00					8:00
0	Off Call	Ottawa,ONT	15:00													
Totals:									0.000	0:00	0:00	8:00	0:00	0:00	0:00	8:00

NO DEFECTS FOUND**Change History**

Date - Time	User	Description
4/20/2020 11:48:14 AM	khall	track id corrected
4/20/2020 11:54:26 AM	khall	Changed reporting truck

HERZOG Chief Operator:



Railroad Track Escort:



HERZOG

HERZOG Services, INC.

600 39th Street, Ledec, AB T9E 0Z4

Phone: (780) 955-3677 Fax: (780) 955-3674

Client: ALSTOM

Test Car: HRZ411

Operator: BKM

Test Date: 04/18/2020

Crew: Bradley McCann

LINES TESTED

Line Segment:	Division:	Subdivision:	Location:	Remarks:
0	Ottawa	Ottawa	0 To 9999	PIC - BRIAN BITTLE PIN# 425393 Tested Main 01 Tonight and part of Main 02 Will continue to test Main 02 tomorrow night

MOVEMENT DETAIL

Line	Mode	Remarks	Time	Mile Post Beg End	Track Dir Type	Suf ID	Tested Miles Min	Run-Light Non-Tran	Delay Train Other Supt Hgz	Non- Bill	Service Minutes
0	On Call	On Call	00:06								
0	Delay (Other)	Job Briefing	00:06						0:30		0:30
0	Run-Light Non-Transfer	TTL	00:36					0:54			0:54
0	Delay (Other)	Prepare to test	01:30						0:42		0:42
0	Test	Main 01	02:12	8.000 0.000	- E	M 01	8.000 2:00				2:00
0	Run-Light Non-Transfer	TTL	04:12					0:18			0:18
0	Test	Main 02	04:30	0.000 0.241	- W	M 02	0.241 0:06				0:06
0	Run-Light Non-Transfer	Pilot to toolhouse	04:36					0:54			0:54
0	Delay (Support)		05:30						2:36		2:36
0	Off Call	OTTAWA.ONT	08:06								
Totals:							8.241 2:06	2:06 0:00 0:00 1:12 2:36 0:00 0:00			8:00

DEFECT INFORMATION

#	Line	MP	Track	Pos	Defect	Size	Wgt	Prof	Alloy	MFG	Year	Const	HRW	Remarks	Latitude	Longitude
1	0	6.382 -	M 01	RT	DWP	10	115	RE	SR	AL	2014	W	N/A	10 % DWP	45.41470337	-75.71109009

Defect Count: 1

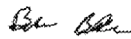
Change History

Date - Time	User	Description
4/20/2020 1:08:03 PM	khall	Changed reporting truck number
4/27/2020 1:59:48 PM	khall	Adjusted off call time to reflect 8 hour day
4/27/2020 2:00:25 PM	khall	No changes made

HERZOG Chief Operator:



Railroad Track Escort:





HERZOG Services, INC.
600 39th Street, Ledec, AB T9E 0Z4
Phone: (780) 955-3677 Fax: (780) 955-3674

Client: ALSTOM

Test Car: HRZ411

Operator: BKM

Test Date: 04/18/2020

Crew: Bradley McCann

LINES TESTED

Line Segment:	Division:	Subdivision:	Location:	Remarks:
0	Ottawa	Ottawa	0 To 9999	PIC - Brian Bittle PIN# 425393
				Completed Yard Tacks- 19,25,24,23,26,27,28,29,30
				Completed MAIN 02
				Completed all Crossovers on Mainline
				Will continue testing the yard tracks tomorrow @1800

MOVEMENT DETAIL

Line	Mode	Remarks	Time	Mile Beg	Post End	Track Dir	Type	Suf ID	Tested Miles	Min	Run-Light Non-Tran	Train	Delay Other	Supt	Hzg	Non- Bill	Service Minutes
0	On Call	On Call	19:30														
0	Delay (Other)	Job Briefing	19:30										0:30				0:30
0	Delay (Other)	Prepare for testing	20:00										0:24				0:24
0	Test	TRACK 19 COMPLETE	20:24	0.000	0.128	-	N	6 19	0.128	0:06							0:06
0	Run-Light Non-Transfer	TTL	20:30								0:06						0:06
0	Test	TRACK 25	20:36	0.000	0.078	-	W	6 25	0.078	0:06							0:06
0	Run-Light Non-Transfer	TTL	20:42								0:06						0:06
0	Test	TRACK 23 COMPLETE	20:48	0.000	0.194	-	W	6 23	0.194	0:12							0:12
0	Run-Light Non-Transfer	TTL	21:00								0:06						0:06
0	Test	TRACK 24	21:06	0.000	0.133	-	E	6 24	0.133	0:06							0:06
0	Delay (Train)	Train Delay	21:12									0:18					0:18
0	Test	TRACK 24 COMPLETE	21:30	0.133	0.176	-	E	6 24	0.043	0:06							0:06
0	Run-Light Non-Transfer	TTL	21:36								0:12						0:12
0	Test	TRACK 25	21:48	0.078	0.203	-	E	6 25	0.125	0:06							0:06
0	Delay (Train)	Train Delay	21:54									0:06					0:06
0	Test	TRACK 25 COMPLETE	22:00	0.203	0.268	-	E	6 25	0.065	0:06							0:06
0	Run-Light Non-Transfer	TTL	22:06								0:18						0:18
0	Test	TRACK 26 COMPLETE	22:24	0.000	0.222	-	E	6 26	0.222	0:12							0:12
0	Run-Light Non-Transfer	TTL	22:36								0:12						0:12
0	Test	TRACK 27 COMPLETE	22:48	0.000	0.267	-	E	6 27	0.267	0:12							0:12
0	Run-Light Non-Transfer	TTL	23:00								0:12						0:12
0	Test	TRACK 28	23:12	0.000	0.125	-	E	6 28	0.125	0:06							0:06
0	Delay (Train)	Train Delay	23:18									0:06					0:06
0	Test	TRACK 28 COMPLETE	23:24	0.125	0.172	-	E	6 28	0.047	0:06							0:06
0	Run-Light Non-Transfer	TTL	23:30								0:06						0:06
0	Test	TRACK 29	23:36	0.000	0.124	-	E	6 29	0.124	0:06							0:06
0	Delay (Train)	Train Delay	23:42									0:12					0:12
0	Test	TRACK 29 COMPLETE	23:54	0.124	0.159	-	E	6 29	0.035	0:06							0:06
0	Run-Light Non-Transfer	TTL	00:00								0:06						0:06
0	Test	TRACK 30	00:06	0.000	0.154	-	E	6 30	0.154	0:06							0:06
0	Delay (Train)	Train Delay	00:12									0:12					0:12
0	Test	TRACK 30 COMPLETE	00:24	0.154	0.216	-	E	6 30	0.062	0:00							0:00
0	Run-Light Non-Transfer	Travel to main line	00:24								0:30						0:30
0	Delay (Other)	Prepare to test	00:54										1:00				1:00
0	Test	Main 02	01:54	8.000	0.240	-	E	M 02	7.760	1:36							1:36
0	Run-Light Non-Transfer	TTL	03:30								0:06						0:06
0	Test	CROSSOVER 330/329	03:36	0.000	0.083	-	W	8 330	0.083	0:06							0:06
0	Run-Light Non-Transfer	TTL	03:42								0:06						0:06

0	Test	CROSSOVER 328/327	03:48	0.000	0.045	-	W	8	328	0.045	0:06		0:06
0	Run-Light Non-Transfer	TTL	03:54								0:06		0:06
0	Test	CROSSOVER 326/325	04:00	0.000	0.033	-	W	8	326	0.033	0:06		0:06
0	Run-Light Non-Transfer	TTL	04:06								0:06		0:06
0	Test	CROSSOVER 324/323	04:12	0.000	0.046	-	W	8	324	0.046	0:06		0:06
0	Run-Light Non-Transfer	TTL	04:18								0:06		0:06
0	Test	TRACK 11	04:24	0.000	0.179	-	W	6	11	0.179	0:06		0:06
0	Run-Light Non-Transfer	TTL	04:30								0:06		0:06
0	Test	TRACK 12	04:36	0.000	0.145	-	N	6	12	0.145	0:06		0:06
0	Run-Light Non-Transfer	TTL	04:42								0:06		0:06
0	Test	CROSSOVER 320/319	04:48	0.000	0.034	-	W	8	320	0.034	0:06		0:06
0	Run-Light Non-Transfer	TTL	04:54								0:06		0:06
0	Test	CROSSOVER 318/317	05:00	0.000	0.033	-	W	8	318	0.033	0:06		0:06
0	Run-Light Non-Transfer	TTL	05:06								0:06		0:06
0	Test	CROSSOVER 316/315	05:12	0.000	0.035	-	W	8	316	0.035	0:06		0:06
0	Run-Light Non-Transfer	TTL	05:18								0:06		0:06
0	Test	CROSSOVER 314/313	05:24	0.000	0.034	-	W	8	314	0.034	0:06		0:06
0	Run-Light Non-Transfer	TTL	05:30								0:06		0:06
0	Test	CROSSOVER 310/309	05:36	0.000	0.032	-	W	8	310	0.032	0:06		0:06
0	Run-Light Non-Transfer	TTL	05:42								0:06		0:06
0	Test	CROSSOVER 312/311	05:48	0.000	0.032	-	W	8	312	0.032	0:06		0:06
0	Run-Light Non-Transfer	TTL	05:54								0:06		0:06
0	Test	CROSSOVER 306/305	06:00	0.000	0.043	-	W	8	306	0.043	0:06		0:06
0	Run-Light Non-Transfer	TTL	06:06								0:06		0:06
0	Test	CROSSOVER 308/307	06:12	0.000	0.046	-	W	8	308	0.046	0:06		0:06
0	Run-Light Non-Transfer	TTL	06:18								0:06		0:06
0	Test	CROSSOVER 302/301	06:24	0.000	0.048	-	W	8	302	0.048	0:06		0:06
0	Run-Light Non-Transfer	TTL	06:30								0:06		0:06
0	Test	CROSSOVER 304/303	06:36	0.000	0.047	-	W	8	304	0.047	0:06		0:06
0	Run-Light Non-Transfer	PILOT TO TOOLHOUSE	06:42								0:18		0:18
0	Off Call	OTTAWA,ONT	07:00										

Totals: 10.477 4:54 3:48 0:00 0:54 1:54 0:00 0:00 0:00 11:30

NO DEFECTS FOUND

Change History

Date - Time	User	Description
4/20/2020 1:08:33 PM	khall	Changed reporting truck number

HERZOG Chief Operator:



Railroad Track Escort:





HERZOG Services, INC.

600 39th Street, Ledec, AB T9E 0Z4

Phone: (780) 955-3677 Fax: (780) 955-3674

Client: ALSTOM

Test Car: HRZ411

Operator: BKM

Test Date: 04/19/2020

Crew: Bradley McCann

LINES TESTED

Line Segment:	Division:	Subdivision:	Location:	Remarks:
0	Ottawa	Ottawa	0 To 9999	PIC - BRIAN BITTLE PIN# 425393 Completed tracks- 31,32,33,34, 14 E, 13 E, 22,11, 12 W , 13W,14W, 21 Completed Crossovers in YARD 504/503, 502/501 ALSTOM MAIN LINE , YARD TRACKS AND ALL CROSSOVERS COMPLETED WILL BE BACK MID JULY TO TEST MAINLINE

MOVEMENT DETAIL

Line	Mode	Remarks	Time	Mile Beg	Post End	Track Dir	Type	Suf ID	Tested Miles	Min	Run-Light Non-Tran	Delay Train	Other Supt	Hzg	Non-Bill	Service Minutes
0	On Call	On Call	18:00													
0	Delay (Other)	Job Briefing	18:00									0:30				0:30
0	Delay (Other)	Prepare to test	18:30									1:06				1:06
0	Test	TRACK 31 COMPLETE	19:36	0.000	0.234	-	W	6 31	0.234	0:06						0:06
0	Run-Light Non-Transfer	TTL	19:42								0:06					0:06
0	Test	TRACK 32	19:48	0.000	0.124	-	E	6 32	0.124	0:06						0:06
0	Delay (Train)	Train Delay	19:54									0:06				0:06
0	Test	TRACK 32 COMPLETE	20:00	0.124	0.172	-	E	6 32	0.048	0:06						0:06
0	Run-Light Non-Transfer	TTL	20:06								0:06					0:06
0	Test	TRACK 33 COMPLETE	20:12	0.000	0.202	-	E	6 33	0.202	0:06						0:06
0	Run-Light Non-Transfer	TTL	20:18								0:12					0:12
0	Test	TRACK 34 COMPLETE	20:30	0.000	0.154	-	E	6 34	0.154	0:06						0:06
0	Run-Light Non-Transfer	TTL	20:36								0:24					0:24
0	Test	TRACK 14 EAST COMPI FTF	21:00	0.000	0.164	-	E	6 14	0.164	0:24						0:24
0	Run-Light Non-Transfer	TTL	21:24								0:06					0:06
0	Test	TRACK 13 EAST COMPI FTF	21:30	0.000	0.043	-	E	6 13	0.043	0:06						0:06
0	Run-Light Non-Transfer	TTL	21:36								0:06					0:06
0	Test	TRACK 22 COMPLETE	21:42	0.000	0.057	-	W	6 22	0.057	0:06						0:06
0	Run-Light Non-Transfer	TTL	21:48								0:06					0:06
0	Test	TRACK 11 COMPLETE	21:54	0.000	0.643	-	E	6 11	0.643	0:06						0:06
0	Run-Light Non-Transfer	TTL	22:00								0:06					0:06
0	Test	CROSSOVER 504/503 COMPI FTF	22:06	0.000	0.027	-	W	8 504	0.027	0:06						0:06
0	Run-Light Non-Transfer	TTL	22:12								0:06					0:06
0	Test	CROSSOVER 502/501 COMPI FTF	22:18	0.000	0.027	-	W	8 502	0.027	0:06						0:06
0	Run-Light Non-Transfer	TTL	22:24								0:06					0:06
0	Test	TRACK 12 WEST COMPI FTF	22:30	0.000	0.363	-	W	6 12	0.363	0:06						0:06
0	Run-Light Non-Transfer	TTL	22:36								0:12					0:12
0	Test	TRACK 13 WEST COMPI FTF	22:48	0.000	0.064	-	W	6 13	0.064	0:06						0:06
0	Run-Light Non-Transfer	TTL	22:54								0:06					0:06
0	Test	TRACK 14 WEST COMPI FTF	23:00	0.000	0.044	-	W	6 14	0.044	0:06						0:06
0	Run-Light Non-Transfer	TTL	23:06								0:12					0:12
0	Test	TRACK 21 COMPLETE	23:18	0.000	0.058	-	E	6 21	0.058	0:06						0:06
0	Run-Light Non-Transfer	TTL	23:24								0:06					0:06
0	Test	TRACK 12 EAST COMPI FTF	23:30	0.000	0.076	-	E	6 12	0.076	0:06						0:06
0	Run-Light Non-Transfer	Pilot to toolhouse	23:36								0:18					0:18
0	Off Call	OTTAWA,ONT	23:54													
Totals:									2.328	1:54	2:18	0:00	0:06	1:36	0:00	5:54

NO DEFECTS FOUND

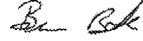
Change History

Date - Time	User	Description
4/20/2020 1:09:03 PM	khall	Changed reporting truck number

HERZOG Chief Operator:



Railroad Track Escort:



HERZOG

HERZOG Services, INC.

600 39th Street, Ledec, AB T9E 0Z4

Phone: (780) 955-3677 Fax: (780) 955-3674

Client: ALSTOM

Test Car: HRZ411

Operator: BKM

Test Date: 04/20/2020

Crew: Bradley McCann

LINES TESTED

Line Segment:	Division:	Subdivision:	Location:	Remarks:
0	Ottawa	Ottawa	0 To 9999	

MOVEMENT DETAIL

Line	Mode	Remarks	Time	Mile Beg	Post End	Track Dir	Type	Suf ID	Tested Miles	Min	Run-Light Non-Tran	Train	Delay Other	Supt	Hzg	Non-Bill	Service Minutes
0	On Call	On Call	07:00														
0	Run-Light Transfer	DE-MOB	07:00								8:00						8:00
0	Test	MOCK TEST	15:00	0.000	0.000	-	N	M 1	0.000	0:00							0:00
0	Off Call	ON	15:00														
Totals:									0.000	0:00	0:00	8:00	0:00	0:00	0:00	0:00	8:00

NO DEFECTS FOUND

HERZOG Chief Operator:

Railroad Track Escort: