

# Executive Summary

Date **11/3/2021**  
 Customer **TASI**  
 RR Supervisor **Michael Romero**

Holland Unit **TTS483**  
 Supervisor **Robert Carney**  
 E-mail address [REDACTED]  
 Cell [REDACTED]  
 Employee 2 **Roland Harris**

## Test Log

Track Info	Track Code	From	To	Total Miles	Total Red	Total Yellow	Red Defects/ Miles
<b>SAN FRANCISCO</b>							
<b>SAN FRANCISCO</b>							
1-1A CP ALMA	XOVR	28.99	29.10	0.11	0	0	0.00
1-1A CP CENTER	XOVR	12.69	12.79	0.10	0	0	0.00
1-1A CP DUMBARTON	XOVR	25.92	26.04	0.12	0	0	0.00
1-1A CP PALM	XOVR	17.97	18.05	0.08	0	0	0.00
7-7A CP TROUSDALE	XOVR	14.14	14.23	0.09	0	0	0.00
9-9A CP ALMA	XOVR	29.13	29.23	0.10	0	0	0.00
9-9A CP CENTER	XOVR	12.79	12.89	0.10	0	0	0.00
9-9A CP JUNCTION	XOVR	27.11	27.20	0.09	0	0	0.00
9-9A CP PALM	XOVR	18.05	18.15	0.10	0	0	0.00
9-9A CP TROUSDALE	XOVR	14.24	14.34	0.10	0	0	0.00
MT 2	MAIN	8.00	13.08	5.08	0	0	0.00
MT 2	MAIN	13.08	14.36	1.28	0	0	0.00
MT 2	MAIN	14.36	18.20	3.84	0	0	0.00
MT 2	MAIN	18.20	26.20	8.00	0	1	0.00
MT 2	MAIN	26.20	29.25	3.05	0	0	0.00
MT 2	MAIN	29.25	29.60	0.35	0	1	0.00
WEST CTRL	SIDE	26.18	27.10	0.92	0	0	0.00

Total Miles Tested :	23.51	
Total Hours Tested :	4.75	hrs
Total Customer Delay:	3.75	hrs
Total Holland Delay:	0.00	hrs

## Next Day Testing Plan

Date **11/04/2021** Start Time **10:00:00 PM**  
 Subdivision **SAN FRANCISCO** Pilot **Michael Romero**  
 Track **MT 2** Pilot Phone [REDACTED]  
 Starting MP **0.00**  
 Note **We will continue testing CalTrain.**

\* The calculation for Total Miles assume all miles are 5280 feet which may differ from actual distance between milepost(s) tested.

# Holland TrackSTAR Daily Report

Unit: TTS483 Cust #:101477  
 Date: Wednesday, November 3, 2021  
 Division:  
 From Station: MP 8.00

Customer: TAS  
 Road Master: Derek Brown  
 Subdivision: SAN FRANCISCO  
 To Station: MP 29.60

Start Location: Belmont, California  
 Tie Up Location: Belmont, California  
 Plot(s): Michael Romero  
 Work Order: 26204  
 Customer Signature:

Arrive Time: 22:00  
 Depart Time: 06:30  
 Billable Hours: 8.50

Activity	Hours	Delay	Code	Description	Hours	LDD Cant	Left	Right
A	Crew	0.00	E1	Load Axle	0.00	Protractor	0	0
B	Train	1.75	E2	Host Sys	0.00	LDD Cant #s	0	0
C	Dispatcher	0.00	E3	Geo/Prof Sys	0.00	M N #s	0	0
D	M.O.W	0.00	E4	Laser Cam	0.00	New N #s	0	0
F	Verify Tag	0.00	E5	Truck	0.00	Calc Cants	0	0
G	Other	0.00	E6	H Rail	0.00			
H	Briefing	0.50	E7	Encoder	0.00			
	Start/Shut	0.50	E8	HACS Sys	0.00			
J	Travel	0.50	E9	Get Set	0.00			
	Total Hours	3.75	E10	Hoses / Cables	0.00			
K	Weekend	0.00	E11	Shop Mtce	0.00			
L	Dead Head	0.00	E12	Field Mtce	0.00			
M	Admin	0.50	E13	HolCo Crew	0.00			
			E14	Weather	0.00			
				Total Hours	0.00			

Customer Received:  Job Briefing  Electronic Copy  Customer Survey  
 Test Reports  Hard Copy  Customer Survey Audit  
 Form B Only  KM Test  
 Operator Signature:   
 Unit Phone: XXXXXXXXXX

Driver initials:

Vertical Debas				Stat c Rail Gap				Mobilization		Utilization	
Roll	Yaw	Lat	Vert	Left		0.006		Start Time	00:00	Hours Tested	4.75
0	0	61	3277	Right		0.002		End Time	00:00	RR Act v tes	3.75
Gage & Xlvl Calc				Today's Weather				M les		Delays	
	New	Old	D ff	Start	Cond tion	Temp		Weekend		Billable Hours	
UNLD	0.74	0.76	0.020	M d	Clear	59		From		M les Tested	
LDD	0.75	0.76	0.010	End	Lght Ran	61		To		Deadhead M les	
X L	0.12	0.18	0.060		Dr zzle	61		Total Hours		Average MPH	
										4.95	

Lat / Vert				Defect Report Summary		M d Day Ver f cat on			
DV	PV	Lat	Lat / V	Urgent	0	Defect Type	Locat on	Defect #	Measurement
14	14	9	0.6429	Pr or ty	2	Gage			0.00
						CrossLevel			0.00
						Curvature			0.00

Time From	Time To	Code	Delay Time	Test Time	From Mile	To Mile	Total Miles	Test Dir	Test Class	Track Identifier	Track Type	ID	Urgent Defects	Priority Defects	Description
21:30	22:00														PM Unit
22:00	22:30	H	0.50												Job Briefing
22:30	23:00	J	0.50												Travel to set on point
23:00	00:45	B	1.75												Train delay
00:45	01:00	I	0.25												Set on and calibrate system
01:00	01:30			0.50	8.00	13.08	5.08	S	4	MAIN TRACK 2	MAIN	5227	0	0	Main 2, Wet Rail
01:30	01:45			0.25	12.69	12.79	0.10	S	1	CP CENTER X OVER	XOVR	5228	0	0	Center North Xover, Wet Rail
01:45	02:00			0.25	12.79	12.89	0.10	S	3	CP CENTER X OVER	XOVR	5229	0	0	Center South Xover, Wet Rail
02:00	02:15			0.25	13.08	14.36	1.28	S	4	MAIN TRACK 2	MAIN	5230	0	0	Main 2, Wet Rail
02:15	02:30			0.25	14.14	14.23	0.09	S	3	CP TROUSDALE X OVER	XOVR	5231	0	0	Trousdale North Xover, Wet Rail
02:30	02:45			0.25	14.24	14.34	0.10	S	3	CP TROUSDALE X OVER	XOVR	5233	0	0	Trousdale South Xover, Wet Rail
02:45	03:00			0.25	14.36	18.20	3.84	S	4	MAIN TRACK 2	MAIN	5234	0	0	Main 2, Wet Rail
03:00	03:15			0.25	17.97	18.05	0.08	S	3	CP PALM X OVER	XOVR	5235	0	0	Palm North Xover, Wet Rail
03:15	03:30			0.25	18.05	18.15	0.10	S	3	CP PALM X OVER	XOVR	5237	0	0	Palm South Xover, Wet Rail
03:30	04:00			0.50	18.20	26.20	8.00	S	4	MAIN TRACK 2	MAIN	5238	0	1	Main 2, Wet Rail
04:00	04:15			0.25	26.18	27.10	0.92	S	2	WEST CONTROLLED SIDING	SIDE	5239	0	0	West Controlled Siding, Wet Rail
04:15	04:30			0.25	27.11	27.20	0.09	S	2	CP JUNCTION X OVER	XOVR	5240	0	0	Junction Xover, Wet Rail
04:30	04:45			0.25	25.92	26.04	0.12	S	2	CP DUMBARTON X OVER	XOVR	5241	0	0	Dumbarton Xover, Wet Rail
04:45	05:00			0.25	26.20	29.25	3.05	S	4	MAIN TRACK 2	MAIN	5242	0	0	Main 2, Wet Rail
05:00	05:15			0.25	28.99	29.10	0.11	S	3	CP ALMA X OVER	XOVR	5243	0	0	Alma North Xover, Wet Rail
05:15	05:30			0.25	29.13	29.23	0.10	S	3	CP ALMA X OVER	XOVR	5244	0	0	Alma South Xover, Wet Rail





## TrackSTAR®

**Client:**  
TASI

**Subdivision**  
SAN FRANCISCO

**Track**  
MT 2

**Track Information:**  
MAIN TRACK 2

**Notes on Reports**

**Strip Charts**

Test Header Information is available on the top of the page

Mile Post/Track information is available on the bottom of the page

Channel information and scale values available on the left

**Exception Reports**

Red Defect  
Yellow Defect

**Benchmark Legend**

SW - switch  
FR - Frog  
CR - Curve  
RX - Road Crossing  
SG - Signal  
JT - Joints

**Truck Unit:**

TTS483

Office: [REDACTED]  
Unit: [REDACTED]  
Email: [REDACTED]



**Legend for Event Markings on bottom of Strip Chart Page**

	Mile Post		Crossing		Frog		Switch		Diamond		Signal
	Posted Speed		End Manual Speed		Begin Manual Speed		Exit Tunnel		Enter Tunnel		OverPass
	Jointed Rail		Welded Rail		Enter Bridge		Exit Bridge		Station		Warning



# Holland Track Testing Services - ARIES Strip Chart Report

Truck Unit : TTS483

Pg : 1

Client : TASI

Subdivision: SAN FRANCISCO

Inspector : Derek Brown

Track Info : MAIN TRACK 2

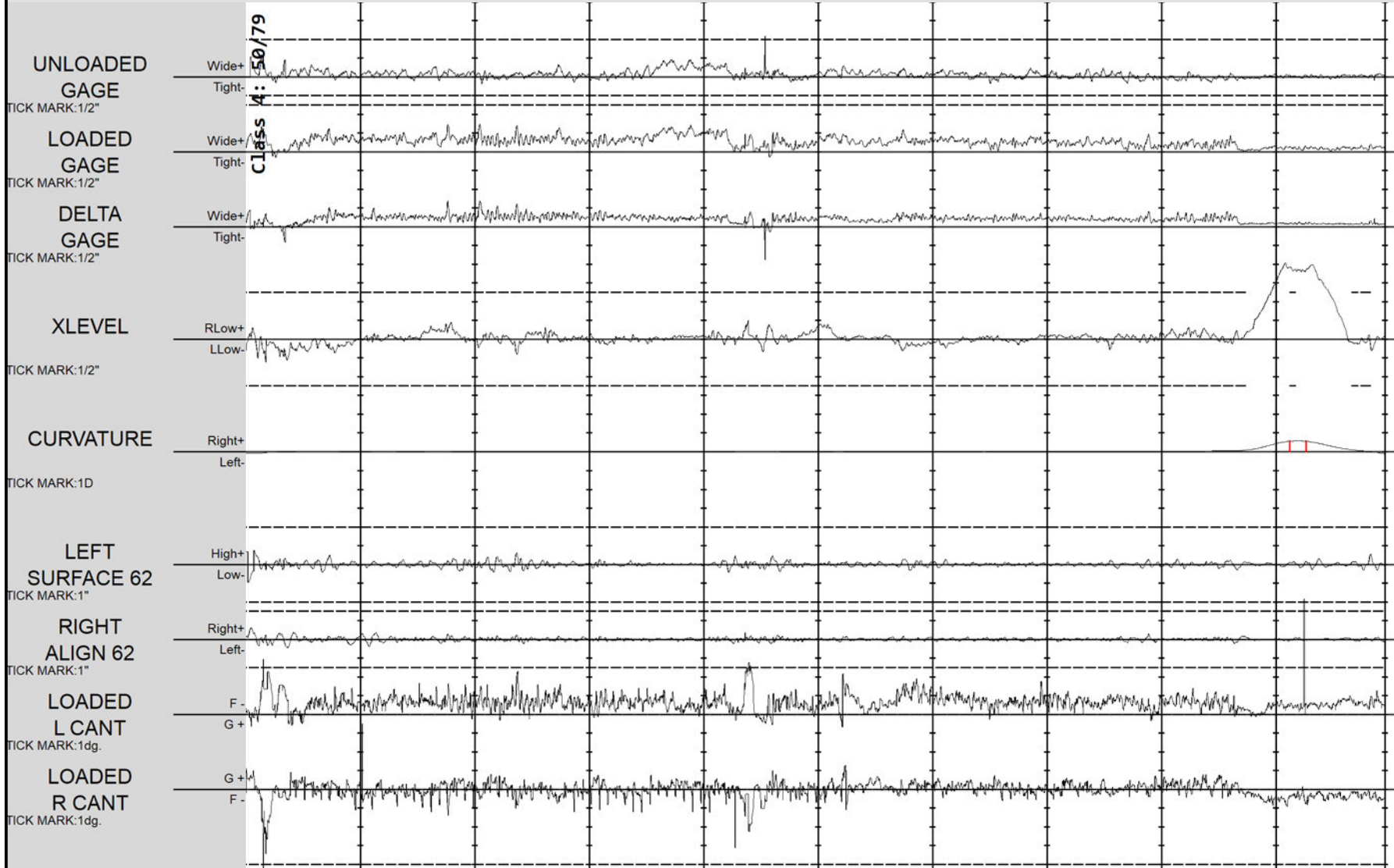
Track Class : 4

Passenger Speed : 79

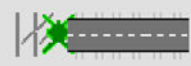
Freight Speed : 50

Test Date : 11/4/2021 3:01 AM

8.10	8.20	8.30	8.40	8.50	8.60	8.70	8.80	8.90	9.0
(0528)	(1056)	(1584)	(2112)	(2640)	(3168)	(3696)	(4224)	(4752)	(0000)



SPEED  
70  
LIMIT



13

C ent : TASI

Subd v s on:SAN FRANCISCO

Ra Personne : Derek Brown

Track Info : MAIN TRACK 2

Track C ass : 4

Passenger Speed : 79

Fre ght Speed : 50

Test Date : 11/4/2021 3:01 AM

9.10	9.20	9.30	9.40	9.50	9.60	9.70	9.80	9.90	10.0
(0528)	(1056)	(1584)	(2112)	(2640)	(3168)	(3696)	(4224)	(4752)	(0000)

UNLOADED GAGE

TICK MARK:1/2"

Wide+  
Tight-

LOADED GAGE

TICK MARK:1/2"

Wide+  
Tight-

DELTA GAGE

TICK MARK:1/2"

Wide+  
Tight-

XLEVEL

TICK MARK:1/2"

RLow+  
LLow-

CURVATURE

TICK MARK:1D

Right+  
Left-

LEFT SURFACE 62

TICK MARK:1"

High+  
Low-

RIGHT ALIGN 62

TICK MARK:1"

Right+  
Left-

LOADED L CANT

TICK MARK:1dg.

F.  
G +

LOADED R CANT

TICK MARK:1dg.

G +  
F.

13  1 2   13





# Holland Track Testing Services - ARIES Strip Chart Report

Truck Unit : TTS483

Pg : 4

Client : TASI

Subdivision : SAN FRANCISCO

Inspector : Derek Brown

Track Info : MAIN TRACK 2

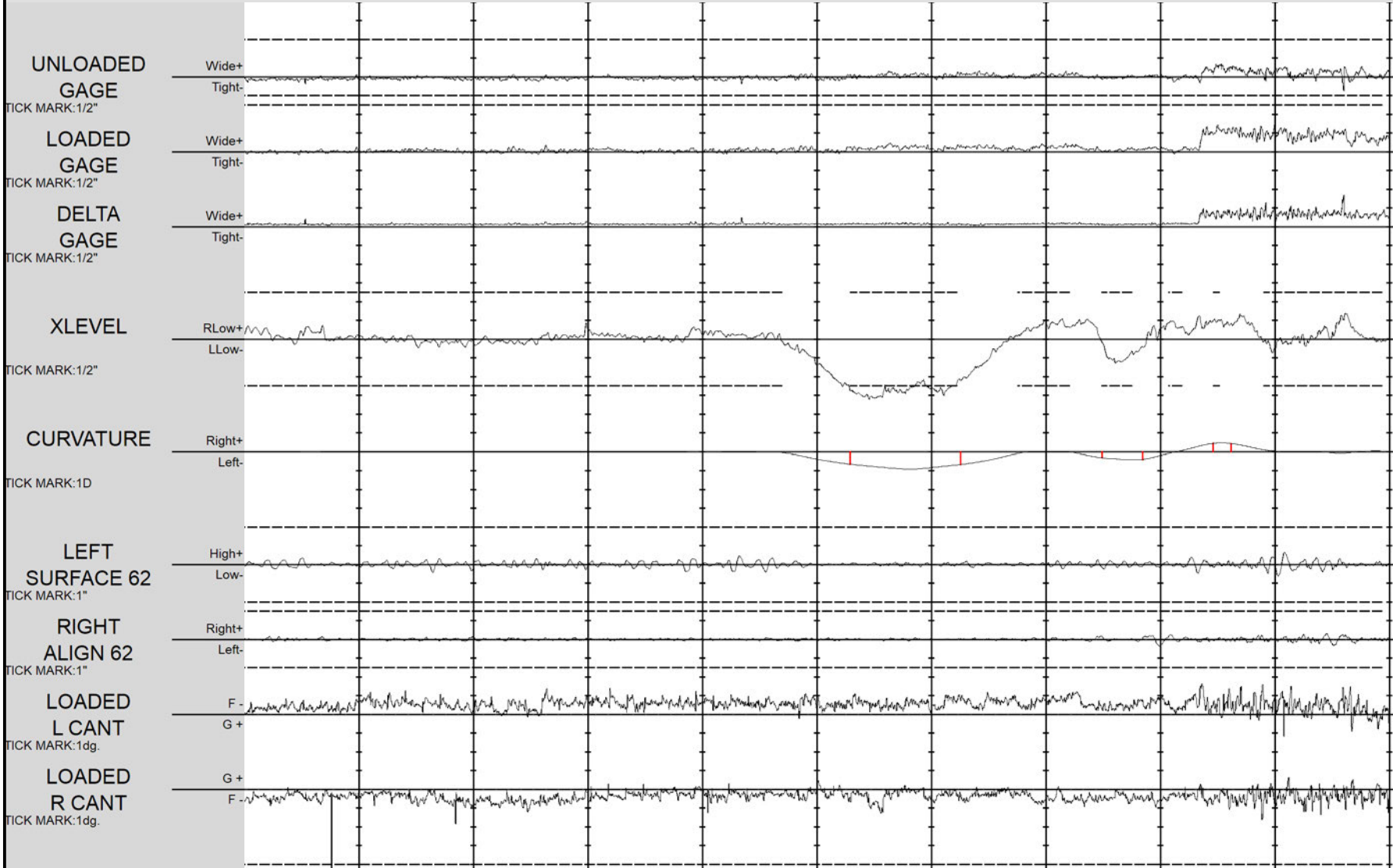
Track Class : 4

Passenger Speed : 79

Freight Speed : 50

Test Date : 11/4/2021 3:01 AM

11.10	11.20	11.30	11.40	11.50	11.60	11.70	11.80	11.90	12.0
(0528)	(1056)	(1584)	(2112)	(2640)	(3168)	(3696)	(4224)	(4752)	(0000)







Client : TASI

Subdivision: SAN FRANCISCO

Inspector : Derek Brown

Track Info : MAIN TRACK 2

Track Class : 4

Passenger Speed : 79

Freight Speed : 50

Test Date : 11/4/2021 3:01 AM

13.10  
(0528)

UNLOADED  
GAGE

TICK MARK: 1/2"

Wide+  
Tight-

LOADED  
GAGE

TICK MARK: 1/2"

Wide+  
Tight-

DELTA  
GAGE

TICK MARK: 1/2"

Wide+  
Tight-

XLEVEL

TICK MARK: 1/2"

RLow+  
LLow-

CURVATURE

TICK MARK: 1D

Right+  
Left-

LEFT  
SURFACE 62

TICK MARK: 1"

High+  
Low-

RIGHT  
ALIGN 62

TICK MARK: 1"

Right+  
Left-

LOADED  
L CANT

TICK MARK: 1dg.

F -  
G +

LOADED  
R CANT

TICK MARK: 1dg.

G +  
F -

13



# HOLLAND TRACK TESTING SERVICES - Red Defects Report

Vehicle: TTS483

Direction: S

Units: Miles

Test Date: 11/4/2021 3:01:08AM

Client: TASI

RR Personnel:Derek Brown

Subdivision: SAN FRANCISCO

Track: MT 2

Defect Num	Worst Loc.(Mp)	Track Info	R/Y	Defect Name	Max	Len (ft)	Track Class	Safe (MPH) P/F	LM+FT	Gauge (in)	Start Latitude	Start Longitude	crv
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**No Exceptions Detected**

Post 8.000 To 13.080 End of Territory Defect Parameter Summary for ALL Tracks



# HOLLAND TRACK TESTING SERVICES - RED Repair Defects Report

Vehicle: TTS483

Direction: S

Units: Miles

Test Date: 11/4/2021 3:01:08AM

Client: TASI

RR Personnel:Derek Brown

Subdivision: SAN FRANCISCO

Track: MT 2

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Defect Num	Worst Loc.(Mp)	Track Info	R/Y	Defect Name	Max	Len (ft)	Track Class	Safe (MPH) P/F	LM+FT	Gauge (in)	Start Latitude	Start Longitude	crv
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Remedial Action:

**No Exceptions Detected**

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Post 8.000 To 13.080 End of Territory Defect Parameter Summary for ALL Tracks

# HOLLAND TRACK TESTING SERVICE - YELLOW DEFECTS REPORT

Vehicle: TTS483

Direction: S

Units: Miles

Test Date: 11/4/2021 3:01:08AM

Client: TASI

RR Personnel: Derek Brown

Subdivision: SAN FRANCISCO

Track: MT 2

## No Exceptions Detected

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Post 8.000 To 13.080 End of Territory Defect Parameter Summary for ALL Tracks

<b>No Exceptions Detected</b>
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# HOLLAND TRACK TESTING SERVICES - Curve Summary Report

Vehicle: TTS483

Direction: S

Units: Miles

Test Date: 11/4/2021 3:01:08AM

Client: TASI

RR Personnel: Derek Brown

Subdivision: SAN FRANCISCO

Track: MT 2

Start MP	End MP	Track Type	Dir	Curvature Avg (deg)	Elevation Avg (in)	Total Length (ft)	Spiral IN (ft)	Curve Body (ft)	Spiral OUT (ft)	Tight Gauge (ft) 1/4"	Wide Gauge(ft)					Track Class	Freight		PASS	
											1/4"	1/2"	3/4"	1"	Spd		Max	Spd	Max	
8.88	8.97	MAIN	R	0.53	1.86	469	183	77	209	0	0	0	0	0	4	50	113	79	124	
8.99	9.09	MAIN	L	0.56	1.94	512	210	108	194	0	0	0	0	0	4	50	111	79	122	
9.22	9.39	MAIN	L	1.05	3.21	912	323	283	306	0	0	0	0	0	4	50	90	79	97	
9.42	9.51	MAIN	R	0.59	1.90	480	205	85	190	0	0	0	0	0	4	50	108	79	118	
9.56	10.23	MAIN	L	1.04	2.43	3604	334	2855	415	34	1210	22	0	0	4	50	82	79	90	
10.66	10.95	MAIN	L	2.41	5.75	1536	571	414	551	0	0	0	0	0	4	50	71	65	75	
11.48	11.68	MAIN	L	0.80	1.35	1058	285	508	265	0	0	0	0	0	4	50	82	79	91	
11.73	11.81	MAIN	L	0.37	0.34	417	108	188	121	0	0	0	0	0	4	50	108	79	124	
11.82	11.89	MAIN	R	0.41	0.45	362	129	83	150	0	55	0	0	0	4	50	107	79	122	
12.32	12.52	MAIN	L	0.97	2.49	1054	309	439	306	0	43	0	0	0	4	50	87	79	95	
12.59	12.63	MAIN	L	0.27	0.13	223	83	58	82	0	11	0	0	0	4	50	128	79	147	



# Exception Report For Automated Inspection of Track Constructed with Concrete Ties

Vehicle: TTS483

Direction: S

Units: Miles

Test Date: 11/4/2021 3:01:08AM

Client: TASI

RR Personnel: Derek Brown

Subdivision: SAN FRANCISCO

Track: MT 2

Defect Num	Worst Loc. (MP)	Track Info	R/Y	Defect Name	Max	Len (ft)	Track Class	LM+FT	Gauge (in)	Start Latitude	Start Longitude	CrV
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**No Exceptions Detected**

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Post 8.000 To 13.080 End of Territory Defect Parameter Summary for ALL Tracks

**No Exceptions  
Detected**

*This test complies with and meets all of the requirements of FRA 213.234 for the "Automated Inspection of Track Constructed with Concrete Ties". The rail cant defects listed above on this report may represent "Rail Seat Deterioration" in the tie. The defects listed should be validated to determine if any "Rail Seat Deterioration" is evident in the rail seat area of the tie.*

*This report shall serve as evidence that a "Automated Inspection of Track Constructed with Concrete Ties" was performed on the date indicated*