



NATIONAL TRANSPORTATION SAFETY BOARD
Investigative Hearing

Norfolk Southern Railway general merchandise freight train 32N
derailment with subsequent hazardous material release and fires,
in East Palestine, Ohio, on February 3, 2023

GROUP	E
EXHIBIT	
19	

Agency / Organization

Norfolk Southern

Title

**Exhibit 19- Sebring-1 32N.01
Train Log 2-3-23**

Sebring, OH, Track One MP:79.80

Display > DD114141

Site Name : Sebring, OH

Seq Number : 2925

Milepost : 79.80

DB Index # : 141

Direction : East

Arrival : 19:47 02-03-2023

Speed In/Out: 33/37 MPH

Departure : 19:51:16

Slow Speed : 30 MPH

Maximum Speed : 37 MPH

Average Speed : 32 MPH

Amb Temp : 7 F

Battery Voltage: 14.36

Axles : 614

Train Length : 9452.7 Feet

Alarms : 0

Cars : 152

Integ Fails : 0

Gate A Cnt : 614

System Warn : 0

Gate B Cnt : 614

Ch1 Atypical: 0

Ch1 Atyp Alm: 0

Ch2 Atypical: 0

Ch2 Atyp Alm: 0

Sunshot Fltr: Inactive

Radio : On

DED Alarms : On

HBD Scanners: On

AUX Alarms : Off

Announce ABS: On

Announce WRM: On

Announce DIF: Off

Announce CSA: On

Announce DED: On

Announce HI : Off

Announce WD1: Off

Announce WD2: Off

Announce HWD: Off

Efficy. Test: Off

Integ Ch1 : 253 F

Avg Ch1 : 29 F

Integ Ch2 : 253 F

Avg Ch2 : 24 F

ABS High : 200 F

Lowest Ch1 : 0 F

Diff Limit : 115 F

Lowest Ch2 : 0 F

Diff Low Lim: 0 F

Highest Ch1 : 65 F

CSA Slope : 1.60

Highest Ch2 : 51 F

CSA Limit : 255 F

Warm High : 170 F

HBD Filter : 13 Point Median Filter

Car Axle Spacing Ch1 Ch2

Num Num (Feet) (F) (F) Alarms

----- Heat Units = F

1	1	0.0	18	10
	2	6.6	0	2
	3	6.6	0	0
	4	33.7	0	0
	5	6.6	0	0
	6	6.6	0	0
2	7	14.2	0	6
	8	6.6	0	2
	9	6.6	0	0
	10	33.8	0	0
	11	6.6	0	0

	12	6.6	0	0
3	13	11.6	40	36
	14	5.9	31	26
	15	49.4	36	23
	16	5.9	18	12
4	17	8.3	27	23
	18	5.9	29	27
	19	47.9	18	26
	20	5.9	14	18
5	21	14.1	41	18
	22	5.9	27	30
	23	43.5	12	12
	24	5.9	12	8
6	25	20.3	29	30
	26	5.9	37	30
	27	43.8	31	38
	28	6.0	36	30
7	29	19.6	36	30
	30	5.7	12	10
	31	42.6	40	33
	32	5.8	12	8
8	33	19.2	20	18
	34	5.8	44	30
	35	43.8	20	29
	36	5.8	31	26
9	37	16.5	24	10
	38	5.8	31	30
	39	55.1	12	18
	40	5.8	20	26
10	41	11.3	24	16
	42	5.8	29	27
	43	47.1	27	18
	44	5.8	33	27
11	45	8.5	14	23
	46	5.8	20	16
	47	32.9	24	27
	48	5.9	29	12
12	49	12.5	27	12
	50	5.9	23	24
	51	41.8	8	21
	52	5.7	24	24
13	53	13.0	36	6
	54	5.8	20	12

	55	39.0	12	29
	56	5.8	14	29
14	57	8.7	31	12
	58	5.8	31	23
	59	46.2	14	10
	60	5.8	23	23
15	61	8.4	31	24
	62	5.8	31	26
	63	49.4	31	26
	64	5.9	31	21
16	65	8.4	27	24
	66	5.9	33	29
	67	49.5	27	21
	68	5.9	37	38
17	69	8.5	24	18
	70	5.9	41	27
	71	46.4	24	30
	72	5.8	40	24
18	73	8.3	33	29
	74	5.9	36	29
	75	46.1	27	29
	76	5.8	29	21
19	77	8.4	41	31
	78	5.9	41	31
	79	46.0	40	37
	80	5.9	33	31
20	81	8.0	37	14
	82	5.9	37	29
	83	50.3	23	27
	84	5.9	40	29
21	85	8.0	18	14
	86	5.9	27	27
	87	49.6	33	24
	88	5.9	33	23
22	89	7.9	20	24
	90	5.9	40	27
	91	50.4	36	23
	92	5.8	24	31
23	93	8.0	29	30
	94	5.9	37	27
	95	49.4	24	12
	96	5.8	23	27
24	97	8.0	36	33

	98	5.8	40	31
	99	50.1	36	30
	100	5.9	23	23
25	101	8.0	18	38
	102	5.8	36	29
	103	46.2	36	36
	104	5.9	36	30
26	105	8.0	36	24
	106	5.9	54	40
	107	46.3	29	29
	108	5.9	24	23
27	109	7.8	8	6
	110	5.9	23	8
	111	40.2	8	12
	112	5.8	12	8
28	113	7.9	20	12
	114	5.9	18	26
	115	34.6	18	12
	116	5.9	29	21
29	117	8.1	8	24
	118	5.9	36	29
	119	32.3	36	29
	120	5.9	40	33
30	121	8.1	23	26
	122	5.9	31	26
	123	31.4	33	31
	124	5.9	33	24
31	125	8.1	36	26
	126	6.0	24	21
	127	35.1	36	18
	128	5.8	44	30
32	129	7.7	20	30
	130	5.7	36	14
	131	35.9	29	30
	132	5.9	40	16
33	133	8.0	27	27
	134	5.9	14	27
	135	41.0	31	26
	136	5.9	33	14
34	137	8.0	29	38
	138	5.9	44	24
	139	37.0	46	27
	140	5.9	41	40

35	141	8.0	23	18
	142	5.9	24	26
	143	37.1	37	33
	144	5.9	24	10
36	145	7.9	29	29
	146	5.9	31	29
	147	41.6	31	30
	148	5.9	31	30
37	149	8.2	37	30
	150	5.9	37	31
	151	47.6	33	29
	152	5.9	29	27
38	153	8.3	33	27
	154	5.9	36	29
	155	40.3	33	21
	156	6.0	29	33
39	157	8.0	31	30
	158	5.7	36	30
	159	45.6	37	33
	160	5.7	44	27
40	161	8.1	18	29
	162	5.9	31	21
	163	48.3	31	31
	164	6.0	33	36
41	165	8.2	36	33
	166	5.9	36	37
	167	39.1	36	31
	168	6.0	48	40
42	169	8.0	20	8
	170	5.9	8	23
	171	41.3	18	14
	172	5.9	29	24
43	173	8.0	33	29
	174	5.9	31	26
	175	40.4	20	21
	176	5.7	36	27
44	177	8.0	31	21
	178	5.9	36	30
	179	40.8	29	30
	180	5.9	37	29
45	181	8.0	31	27
	182	5.9	33	30
	183	42.1	31	23
	184	5.9	31	30

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	186	5.9	40	29
	187	40.5	27	24
	188	5.9	41	29
47	189	8.0	37	33
	190	5.9	23	23
	191	36.1	24	24
	192	5.9	36	29
48	193	8.0	14	10
	194	5.9	46	38
	195	36.1	18	12
	196	5.9	20	16
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	199	49.6	40	29
	200	5.8	33	37
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	202	6.0	33	30
	203	41.3	37	26
	204	6.0	29	23
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	206	5.9	41	37
	207	40.7	46	46
	208	5.9	36	29
52	209	8.0	27	26
	210	6.0	31	24
	211	37.1	31	31
	212	5.9	33	29
53	213	7.9	20	21
	214	5.9	14	27
	215	46.9	27	21
	216	5.9	40	30
54	217	8.1	31	29
	218	5.9	33	31
	219	47.1	40	29
	220	6.0	37	30
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	222	5.9	40	26
	223	33.7	44	31
	224	5.9	44	26
56	225	12.3	18	23
	226	5.9	29	23
	227	41.8	31	27

228	5.9	24	26
57 229	13.8	29	27
230	5.7	36	30
231	36.3	40	27
232	5.7	23	27
58 233	18.5	31	24
234	5.9	31	23
235	47.3	27	18
236	5.9	33	24
59 237	17.0	12	8
238	5.9	14	8
239	41.1	18	10
240	5.9	27	14
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61 245	8.0	41	27
246	5.9	40	30
247	40.5	37	31
248	5.9	44	29
62 249	8.2	36	23
250	5.9	24	26
251	49.6	41	36
252	5.9	24	24
63 253	8.0	29	27
254	5.9	40	31
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262	5.7	20	14
263	62.0	23	24
264	5.7	41	27
66 265	19.5	37	30
266	5.9	41	30
267	41.5	37	33
268	5.9	46	26
67 269	16.2	37	37
270	5.9	37	37

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	274	5.9	48	16
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	280	5.8	20	14
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	303	41.1	18	10
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	307	41.1	31	16
	308	5.8	27	26
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	311	41.0	37	27
	312	5.8	36	29
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	320	5.7	37	33
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	327	56.3	31	26
	328	5.9	20	18
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	334	5.3	65	41
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	336	5.1	46	31
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	338	5.3	23	12
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	340	5.3	33	33
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	344	5.7	37	31
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	347	41.6	27	24
	348	5.9	37	27
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	354	5.9	23	18
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	360	5.8	14	18
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	363	35.7	37	30
	364	5.9	40	31
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	366	5.8	6	14
	367	41.2	14	10
	368	5.8	18	10
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	426	5.8	24	24
	427	48.9	31	26
	428	5.8	24	21
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	432	5.8	50	23
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	435	49.5	41	33
	436	5.9	46	31
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	438	5.9	36	38
	439	46.6	24	26
	440	5.9	36	30
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	442	5.9	33	27
	443	46.5	36	30

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446	5.9	33	26	
447	49.6	37	16	
448	5.8	24	29	
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453	6.6	0	0	
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457	38.4	46	37	
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466	5.8	40	33	
116	467	10.3	33	31
468	5.8	37	24	
469	35.0	36	36	
470	5.7	53	37	
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472	5.7	48	27	
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	490	5.9	31	24
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	492	5.8	37	27
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	494	5.9	33	27
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	500	5.9	60	30
	501	23.6	40	24
	502	5.8	50	33
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	526	5.8	53	30
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	529	23.6	36	27
	530	5.8	31	36

132 531 7.9 37 37
532 5.9 37 26
533 24.3 14 12
534 5.9 18 16

133 535 7.9 29 30
536 5.9 40 14
537 24.2 44 31
538 5.9 40 37

134 539 7.9 36 31
540 5.9 29 24
541 24.2 24 18
542 5.9 23 10

135 543 7.9 40 29
544 5.9 31 29
545 24.1 14 27
546 5.9 36 26

136 547 7.8 36 27
548 5.8 36 31
549 24.1 31 21
550 5.9 37 30

137 551 7.9 20 10
552 5.8 46 37
553 24.1 29 18
554 5.9 50 38

138 555 7.9 31 27
556 5.8 29 6
557 24.1 23 10
558 5.9 23 14

139 559 7.9 29 10
560 5.9 27 21
561 24.0 24 12
562 5.9 18 18

140 563 7.8 46 31
564 5.8 31 10
565 23.9 14 14
566 5.8 36 30

141 567 7.7 44 37
568 5.8 29 26
569 23.9 40 37
570 5.8 33 18

142 571 7.8 36 21
572 5.8 40 29
573 39.1 18 18

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143	575	7.7	14	12
	576	5.8	40	29
	577	35.8	36	29
	578	5.8	37	29
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	580	5.8	29	24
	581	22.0	23	12
	582	5.8	36	30
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	588	5.9	31	14
	589	50.2	18	12
	590	5.9	27	16
147	591	10.1	29	12
	592	5.7	40	29
	593	26.1	23	18
	594	5.9	18	21
148	595	9.8	20	26
	596	5.9	40	18
	597	42.4	31	21
	598	5.9	37	31
149	599	8.1	20	24
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150	603	8.5	33	27
	604	5.9	23	29
	605	51.2	36	33
	606	5.8	20	12
151	607	8.4	40	29
	608	5.8	44	40
	609	51.2	23	26
	610	5.9	44	33
152	611	8.4	18	29
	612	5.9	31	47
	613	51.1	37	14
	614	5.8	23	18