



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	H
EXHIBIT	
30	

Agency / Organization

Norfolk Southern

Title

UMLER Data for GPLX 0000075465

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EQUIPMENT UNIT GPLX 0000075465 (C214-COVERED HOPPER
 OWNER INITIAL GATX LESSEE BUILT REBUILT
 PRIOR CAR GWR 286 TARE 0661 WEIGH DATE JUN/1997
 AAR CAR TYPE C214 JOURNAL SIZE 6-1/2 X 12 INCHES
 MECHANICAL CAR CLASS OUTSIDE LENGTH (FT IN) 064 11
 ABT INSP DONE UP 2021/11/23 CAR GRADE LOAD/EMPTY L
 ABT 12-24 DUE 2023/11/23 CDU REJECT CODE
 AEI TRANSPONDER-ROAD-DATE 71- -00010101 STANDARD TAG, REG WND, TAGGED
 CURRENT COMMODITY 2821142 PLASTIC, POLYETHYLENE, IN GRANULAR FORM, NOT FU
 LAST COMMODITY
 COUPLER A-END SBE60DE COUPLER B-END SBE60DE
 TRANS/TRANS CONDITION CODE
 CURRENT BAD ORDER: DATE LOCATION REASON
 LAST BAD ORDER : DATE LOCATION REASON

*SYSTEM HANDLING\ADVISORY MESSAGES:
 3003 - RULE 107 INCIDENT
 -
 -

F7=Backward F8=Forward F4=Insp Dtl F10=EMIS F11=UmlrMenu F12=PrevScr
 02/23/23 07:21:49

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OPTION: 02 EQUIPMENT UNIT: GPLX 0000075465 Hopper-Covered

Gross Rail Load/Weight: 286000 lb
 Tare Weight : 66100 lb
 Load Limit : 219900 lb
 Weighing Status : Actual
 Weighing Date : 06/13/1997
 Cubic Feet Capacity : 5851 cuft
 Star Code :
 Qual for Inc GRL : Rule 88 IGRL Code 2 (> 263,000 lbs.)

F2=List
 F7=PrevScn F8=NextScn F10=NS Umler F11=Menu F12=PrevScn
 02/23/23 07:37:51

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OPTION: 20 EQUIPMENT UNIT: GPLX 0000075465 Hopper-Covered

BRAKE-SYSTEM	:	Location 1			
Emer Brkv Cmpnt Id	:	CONFIDENTIAL	Emer Brkv Recon Dt	:	0821
Serv Brkv Cmpnt Id	:		Emer Brkv OEM Wty Dt:	:	
Slack Adjuster Id	:		Emer Brkv Part Nbr	:	730131

	F2=List		F5=Right Map
F7=PrevScn	F8=NextScn	F10=NS Umler	F11=Menu F12=PrevScn
			02/23/23 07:40:51

EQUIPMENT UNIT GPLX 0000075465 (C214-COVERED HOPPER)		WIDTH	HEIGHT	LENGTH
CLEARANCE PLATE C				
INSIDE (FT IN)		00 00	00 00	00 00
OUTSIDE (FT IN)		10 08	15 06	064 11
HT OF EXTREME WIDTH (FT IN)			08 08	
UPPER EAVES (FT IN)		08 08	15 01	
LOWER EAVES (FT IN)		00 00	00 00	
END DOOR (FT IN)		00 00	00 00	
SIDE DOOR (FT IN)		00 00	00 00	
TRUCK CENTER (FT IN)				51 00
EMPTY CENTER OF GRAVITY (FT IN)			0 00	
LOAD CENTER OF GRAVITY (FT IN)			00 00	

F7=Backward F8=Forward
 ENT=NextScr CLEAR=Exit

F10=EMIS

F11=UmlrMenu F12=PrevScr

02/23/23 07:20:18

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OPTION: 10 EQUIPMENT UNIT: GPLX 0000075465 Hopper-Covered

Draft Gear System	:	Location B		
Coupler Code	:	SBE60DE - Type E (Rule	Coupler Style	: Bottom Shel
Draft System Type	:	Standard Draft Gear	Inches of Travel	:
DG Grp/Cush Un Pk	:		Cushion Unit Type	:
Coupler Cmpnt Id	:		Cushion Unit CID	:

Draft Gear System	:	Location A		
Coupler Code	:	SBE60DE - Type E (Rule	Coupler Style	: Bottom Shel
Draft System Type	:	Standard Draft Gear	Inches of Travel	:
DG Grp/Cush Un Pk	:		Cushion Unit Type	:
Coupler Cmpnt Id	:		Cushion Unit CID	:

	F2=List			
F7=PrevScn	F8=NextScn	F10=NS Umler	F11=Menu	F12=PrevScn
				02/23/23 07:40:28

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OPTION: 03 EQUIPMENT UNIT: GPLX 0000075465 Hopper-Covered

Plate Code	:	Plate Code C
		Ft In
Outside Length	:	64 11
Outside Extreme Width	:	10 8
Outside Extreme Height	:	15 6
Outside Height Extr Width	:	8 8
Outside Upper Eave Width	:	8 8
Outside Upper Eave Height	:	15 1
Outside Lower Eave Width	:	0 0
Outside Lower Eave Height	:	0 0
Truck Center Length	:	51 0

F2=List
 F7=PrevScn F8=NextScn F10=NS Umler F11=Menu F12=PrevScn
 02/23/23 07:38:25

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Option: 13 Equipment Unit: GPLX 0000075465 Hopper-Covered

ABT 12-24 Mo Due Date: 11/23/2023

ABT 5/8-Year Due Date: 11/23/2026

Description	Date Done	Rept	Perf	Location
Air Brake Test(Auto. Non 4-Press)	11/23/2021	UP	UP	684807000
Emergency Brake Valve Inspection	11/23/2021	UP	UP	684803000
Air Brake Prior	01/31/2017	GATX	GATX	682482000
Service Brake Valve Inspection	12/07/2013	GATX	NS	380000000
Reflectorization Event	11/01/2008	GATX	GATX	380000000

F2=List
 F5=Right Map
 F7=PrevScn F8=NextScn F10=NS Umler F11=Menu F12=PrevScn
 02/23/23 07:41:30

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OPTION: 01 EQUIPMENT UNIT: GPLX 0000075465 Hopper-Covered

Add & Betterment:

Ledger Value:

Ind for +/- A&B:

Original Cost:

Private Zero Rt :

End of Service:

Extended Service: E - Built new from July 1,1974, Qualified for 50 Years Service

Don't Load After:

Air Hose Argmnt :

Format Code : A

Ownership Code : 3

CDU Eqp Type : CH13

MKT Eqp Type : CI

Mech Dsgtn Code : LO

F2=List

F7=PrevScn

F8=NextScn

F10=NS Umler F11=Menu

F12=PrevScn

02/23/23 07:23:24

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EQUIPMENT UNIT GPLX 0000075465 (C214-COVERED HOPPER)
 PRIOR CAR EIN 0001814675 SWAP INIT GPLX
 OWNER MARK GATX *PRIVATE* BUILT REBUILT
 LESSEE MARK FORMAT A LAST UPDATE 20211125
 CAR TYPE C214 RATE HOURLY 00.00 MILEAGE 0.000
 CAR CATEGORY CH13 DEFAULT RATE ONLY OT-37 00.00
 WEIGH DATE JUN/1997 STAR L NOMINAL CAP(000 LBS) 000
 TOTAL WGT ON RAIL(000 LBS) 286 CAPACITY 05851 CF CAR GRADE
 TARE WEIGHT (00 LBS) 0661 NO. ARTICULATED UNITS
 LOAD LIMIT (00 LBS) 2199 50YR LIFE E ELIGIBLE
 MECHANICAL CAR CLASS CONFIRMED POOL NUMBER
 CAR HIRE RATE 2 MILEAGE PAID
 MECHANICAL DESIGNATION LO COVERED HOPPER FOR BULK COMMODITIES
 NS MARKET CODE CI COVERED HOPPER - SUPER ROUND > 5000
 TRANS/TRANS CONDITION CODE

F2=InspInfo F3=Sts-Code F6=PoolAsgn
 F7=Backward F8=Forward F10=EMIS F11=UmlrMenu F12=PrevScr
 ENT=NextScr CLEAR=Exit 02/23/23 07:18:26

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OPTION: 05 EQUIPMENT UNIT: GPLX 0000075465 Hopper-Covered

Truck Count	:	2	Axle Count	:	4
Wheel Bearing Type	:	Roller	Bearing HBD Shield	:	
Brake Shoe Type	:	High Friction Compos	CC Side Bearing Typ:	:	
Empty/Load Device	:			:	
Body Material	:	Standard Steel	Empty C of Gravity	:	
Rmt Mntrng Dvce Eqp:	:		AEI High Temp Tag	:	
Connected Unit Cnt	:		Intrmdt Conn Style	:	
FRA Reflect Waiver	:	Reflectorization Pla	Operating Brakes	:	1
ECP Brake Builder	:		ECP Brake Type	:	Not Equipped
Equipment Builder	:	Trinity	Builder Lot Code	:	2507B
Built Country	:		Rebuilt Country	:	
Slack Adjuster Grp	:		ABT 4-Press Rcv Eqp:	:	Not Equipped
Brake Cyl Mount Typ:	:	Truck Mounted	Degree of Slope She:	:	40 Degrees
Compartment Count	:	4	Vibrator Bracket Eq:	:	
Unloading System Ty:	:	Pneumatic	Bottom Outlet Count:	:	4
Light Density	:		Auto Unload Device	:	

F2=List

F7=PrevScn F8=NextScn

F10=NS Umler F11=Menu F12=PrevScn

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OPTION: 06 EQUIPMENT UNIT: GPLX 0000075465 Hopper-Covered

Lining Material : Synthetic
Roof Type : Round hatches on center line of car

F7=PrevScn F2=List F10=NS Umler F11=Menu F12=PrevScn
F8=NextScn 02/23/23 07:39:07

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Equipment Unit: GPLX 0000075465

Inspection Type	Date Done	Rptr	Perf	Location	Due Date	Alt Due Dt	Id	Cat	Gr
AIR BRAKE	2021-11-23	UP	UP	684807000	2026-11-23	2023-11-23	_____	__	__
AIR BRAKE PRIOR	2017-01-31	GATX	GATX	682482000	_____	_____	_____	__	__
EMERGENCY BRAKE	2021-11-23	UP	UP	684803000	_____	_____	_____	__	__
REFLECT APP	2008-11-01	GATX	GATX	380000000	_____	_____	_____	__	__
SERVICE BRAKE V	2013-12-07	GATX	NS	380000000	_____	_____	_____	__	__

F10=EMIS F11=Menu F12=PrevScn
02/23/23 07:44:20

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EQUIPMENT UNIT GPLX 0000075465 (C214-COVERED HOPPER)
 AEI TRANSPONDER ROAD-DATE 71- -00010101 STANDARD TAG, REG WND, TAGGED
 NO. OUTLETS 4 NO. OPERATING BRAKES 1
 NO. COMPARTMENTS 4 FOREIGN CUSTOMS
 NO. AXLES 04 DEGREE OF SLOPE SHEET 40
 COUPLER A-END SBE60DE COUPLER B-END SBE60DE
 FLOOR TYPE
 FLOOR STRENGTH
 FLOOR TROUGH
 LINING S SYNTHETIC TYPE
 BODY MATERIAL S STANDARD STEEL
 DOOR TYPE
 ROOF TYPE 4 ROUND HATCH ALONG CAR CENTER LINE
 BEARINGS AND BRAKE SHOES B ROLLER BEARINGS/COMPOSITION BRAKE SHOES
 WHEEL SIZE 4 36 INCHES
 DRAFT GEAR 66 STANDARD, F-BOTTOM SHELF COUPLERS
 TRUCK TYPE E 5 FT 10 IN WITH SNUBBERS
 JOURNAL SIZE F 6-1/2 X 12 INCHES

F2=Fitg-Cd

F7=Backward F8=Forward

F10=EMIS

F11=UmlrMenu F12=PrevScr

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OPTION: 08 EQUIPMENT UNIT: GPLX 0000075465 Hopper-Covered

Restricted Speed when Empty :
 Restricted Speed when Loaded :
 Shove car to rest :
 Shove adjacent Car to Rest :
 Train Position Sensitive :
 End of Train Only :
 Check trailing tonnage :
 Curve Negotiability Exception:
 Cooper Rating Exception :
 Clearance Exception :
 Loaded Net Braking Ratio : 8.5 %
 OP Loaded Net Braking Ratio :
 Empty Braking Ratio : 36.8 %
 OP Empty Braking Ratio :

F2=List
 F7=PrevScn F8=NextScn F10=NS Umler F11=Menu F12=PrevScn
 02/23/23 07:39:48

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OPTION: 09 EQUIPMENT UNIT: GPLX 0000075465 Hopper-Covered

Truck System Cmpnts> LOCATION B	Truck ---> location B
Journal Size : 6-1/2 X 12	Truck Axle Count : 2
Stability Device Eq: Yes	Wheel Diameter : 36 Inches

Wheelset Cmpnt Id : CONFIDENTIAL	Location 2
Axle Space Distance: Axle Location 01	70 Inches

Truck System Cmpnts> LOCATION A	Truck ---> location A
Journal Size : 6-1/2 X 12	Truck Axle Count : 2
Stability Device Eq: Yes	Wheel Diameter : 36 Inches

Axle Space Distance: Axle Location 02	70 Inches
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F2=List	F10=NS Umler	F11=Menu	F12=PrevScn
F7=PrevScn	F8=NextScn		02/23/23 07:40:07