



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

<b>GROUP</b>	<b>H</b>
<b>EXHIBIT</b>	
26	

Agency / Organization

**Norfolk Southern**

Title

**UMLER Data for GATX 0000095098**

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OPTION: 20 EQUIPMENT UNIT: GATX 0000095098 Tank

BRAKE-SYSTEM	:	Location 1		
Emer Brkv Cmpnt Id	:		Emer Brkv Recon Dt	: 9999
Serv Brkv Cmpnt Id	:		Emer Brkv OEM Wty Dt	: 999999
Slack Adjuster Id	:		Emer Brkv Part Nbr	: 9999

	F2=List		F5=Right Map
F7=PrevScn	F8=NextScn	F10=NS Umler	F11=Menu F12=PrevScn
			02/23/23 08:14:05

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OPTION: 20 EQUIPMENT UNIT: GATX 0000095098 Tank

BRAKE-SYSTEM	:	Location 1		
Emer Brkv Cmpnt Id	:		Emer Brkv Recon Dt	: 9999
Serv Brkv Cmpnt Id	:		Emer Brkv OEM Wty Dt	: 999999
Slack Adjuster Id	:		Emer Brkv Part Nbr	: 9999

	F2=List		F5=Right Map
F7=PrevScn	F8=NextScn	F10=NS Umler	F11=Menu F12=PrevScn
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OPTION: 03 EQUIPMENT UNIT: GATX 0000095098 Tank

Plate Code	:	Plate Code C
		Ft In
Outside Length	:	54 6
Outside Extreme Width	:	10 5
Outside Extreme Height	:	15 6
Outside Height Extr Width	:	9 6
Truck Center Length	:	40 11

	F2=List		
F7=PrevScn	F8=NextScn	F10=NS Umler	F11=Menu F12=PrevScn
			02/23/23 08:11:45

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EQUIPMENT UNIT  GATX 0000095098      (T907-TANK
CLEARANCE PLATE C                      WIDTH      HEIGHT      LENGTH
OUTSIDE      (FT IN)      10 05      15 06      054 06
EXTREME      (FT IN)      09 06
TANK HEAD SHIELD      F      FULL SHIELD
TANK HEAD THICKNESS ( IN )      0.5625      TANK SHELL THICKNESS( IN ) 0.5625
TRUCK CENTER (FT IN)      40 11

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

F10=EMIS

F11=UmlrMenu F12=PrevScr

02/23/23 08:09:26

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OPTION: 10 EQUIPMENT UNIT: GATX 0000095098 Tank

Draft Gear System : Location B  
 Coupler Code : SE60DE - Type E (Rule 1 Coupler Style : Double Shel  
 Draft System Type : Standard Draft Gear Inches of Travel :  
 DG Grp/Cush Un Pk : Cushion Unit Type :  
 Coupler Cmpnt Id : CONFIDENTIAL Cushion Unit CID :

Draft Gear System : Location A  
 Coupler Code : SE60DE - Type E (Rule 1 Coupler Style : Double Shel  
 Draft System Type : Standard Draft Gear Inches of Travel :  
 DG Grp/Cush Un Pk : Cushion Unit Type :  
 Coupler Cmpnt Id : CONFIDENTIAL Cushion Unit CID :

F2=List  
 F7=PrevScn F8=NextScn F10=NS Umler F11=Menu F12=PrevScn  
 02/23/23 08:13:52





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Option: 13 Equipment Unit: GATX 0000095098 Tank

ABT 12-24 Mo Due Date: 09/28/2024  
ABT 5/8-Year Due Date: 09/28/2025

Description	Date Done	Rept	Perf	Location
Air Brake Test (Auto. 4-Press)	09/28/2020	UP	UP	612137000
Air Brake Prior	12/04/2015	CN	CN	387750000
Service Brake Valve Inspection	09/29/2014	GATX	PAL	380000000
Emergency Brake Valve Inspection	02/22/2012	GATX	UTCX	380000000
Reflectorization Event	04/26/2011	GATX	GATX	466430000

F2=List  
 F7=PrevScn F8=NextScn  
 F5=Right Map  
 F10=NS Umler F11=Menu F12=PrevScn  
 02/23/23 08:14:39

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OPTION: 01 EQUIPMENT UNIT: GATX 0000095098 Tank

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	: B	Ownership Code	: 3
CDU Eqp Type	: TK01		
MKT Eqp Type	: TA		
Mech Dsgtn Code	: T		

F2=List

F7=PrevScn F8=NextScn

F10=NS Umler F11=Menu F12=PrevScn

02/23/23 08:11:12

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EQUIPMENT UNIT	GATX 0000095098	(T907-TANK	)
PRIOR CAR		EIN 0000974996	SWAP INIT GATX
OWNER MARK	GATX *PRIVATE*	BUILT	REBUILT
LESSEE MARK		FORMAT B	LAST UPDATE 20230207
CAR TYPE	T907	RATE HOURLY 00.00	MILEAGE 0.000
CAR CATEGORY	TK01	DEFAULT RATE ONLY	OT-37 00.00
WEIGH DATE	APR/1992	STAR	NOMINAL CAP(000 LBS) 000
TOTAL WGT ON RAIL(000 LBS)	263	CAPACITY	25740 CG
TARE WEIGHT ( 00 LBS )	0832	NO. ARTICULATED UNITS	
LOAD LIMIT ( 00 LBS )	1798	50YR LIFE	E ELIGIBLE
MECHANICAL CAR CLASS		CONFIRMED POOL NUMBER	
CAR HIRE RATE	2	MILEAGE PAID	
MECHANICAL DESIGNATION	T	TANK CAR	
NS MARKET CODE	TA	TANK CARS, ALL	
TRANS/TRANS CONDITION CODE			

F2=InspInfo	F3=Sts-Code	F6=PoolAsgn
F7=Backward	F8=Forward	F10=EMIS
ENT=NextScr	CLEAR=Exit	F11=UmlrMenu
		F12=PrevScr
		02/23/23 08:08:42



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EQUIPMENT UNIT  GATX 0000095098 (T907-TANK                               )
NO OF SAFETY RELIEF DEVICES      1  SAFETY VENT PROTECTION (Y/N)      N
STUB SILL DESIGN                   TRNTY3
SHIPPING CONT SPECS  105J300W      DESIGN SHIP CONT SPECS 105A300W
TANK HEAD MATERIAL SPECS  128B      AAR TC128, GR.B
TANK SHELL MATERIAL SPECS 128B      AAR TC128, GR.B
BOTTOM OUTLETS/FITTINGS           U0  NOT EQUIPPED
LEVEL OF BOTTOM OUTLETS            U  UNEQUIPPED
TOP FITTING PROTECTION             X  EQUIPPED W/OTH THAN M1002 APPDX E P9.2.1
TYPE OF SAFETY RELIEF DEVICES     V  VALVE

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F7=Backward F8=Forward

F10=EMIS

F11=UmlrMenu F12=PrevScr  
02/23/23 08:10:04

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EQUIPMENT UNIT  GATX 0000095098 (T907-TANK )
AEI TRANSPONDER ROAD-DATE  71-    -00010101 STANDARD TAG, REG WND, TAGGED
NO. COMPARTMENTS           1    NO. OPERATING BRAKES           1
NO. AXLES                   04    FOREIGN CUSTOMS
COUPLER A-END              SE60DE    COUPLER B-END              SE60DE
BEARINGS AND BRAKE SHOES   M
WHEEL SIZE                  4    36 INCHES
DRAFT GEAR                  77    STANDARD, E/F DOUBLE SHELF COUPLERS
TRUCK TYPE                  E    5 FT 10 IN WITH SNUBBERS
JOURNAL SIZE                F    6-1/2 X 12 INCHES

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F2=Fitg-Cd
F7=Backward  F8=Forward          F10=EMIS          F11=UmlrMenu F12=PrevScr
ENT=NextScr  CLEAR=Exit
02/23/23 08:09:43

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OPTION: 21 EQUIPMENT UNIT: GATX 0000095098 Tank

Tank Car Components> LOCATION C  
Pressure Valve CID : CONFIDENTIAL

F7=PrevScn F2=List F10=NS Umler F11=Menu F12=PrevScn  
F8=NextScn 02/23/23 08:15:14

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OPTION: 05 EQUIPMENT UNIT: GATX 0000095098 Tank

Tank Hd Material : AAR TC-128, Gr. B  
 Tank Hd Mtrl Norm: Yes  
 Tank Shell Mtrl: AAR TC128, Gr. B  
 Tk Shell Mtrl Nrm: Yes  
 Head Protect Mtrl: Full Height Head Shield  
 Jacket Mtrl Catg : CARBON STEEL  
 Coils Material :  
 Sfty Vnt/Srge Prt: No  
 Sfty Relief Dev : Valve  
 Btm Fitting Prot : Unequipped  
 Top Fitting Prot : Equipped per 49 CFR 179.100-12  
 CPC1232 Compliant:  
 TC-PD-34-Restrict:  
 Stub Sill Design : TRNTY3 Stub Sill Design  
 Stub-Sill-Dsg-Var: N

Slack Adj Grp : Group R  
 Coils Ext/Int  
 Sfty Rlf Count 1  
 Qual Due  
 Year Year

Tank Qualified:  
 Thickness Qlfd:  
 Service Eqpmnt:  
 Pressure Relief:

F2=List  
 F7=PrevScn F8=NextScn F10=NS Umler F11=Menu F12=PrevScn  
 02/23/23 08:12:32



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OPTION: 05 EQUIPMENT UNIT: GATX 0000095098 Tank

Tank Head Thickness : 0.5625 in.  
Tank Shell Thickness : 0.5625 in.  
Head Protect Thicknss: 0.5000 in.  
Jacket Thickness : 0.1196 in.  
Insulatn/Thrm Prt Typ: Fiberglass & Ceramic Fiber  
Insulation Thickness :  
ABT 4-Press Rcv Equip: Not Equipped  
Brake Cyl Mount Type :  
Bottom Outlet : Not Equipped  
Bottom Outlet Count :  
Btm Outlet Valve Type:  
Btm Out Vlv Actuation:  
Thermal Prot System : Equipped

F2=List

F7=PrevScn

F8=NextScn

F10=NS Umler F11=Menu

F12=PrevScn

02/23/23 08:12:49

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OPTION: 05 EQUIPMENT UNIT: GATX 0000095098 Tank

Wheel Bearing Type	: Roller	Truck Count:	2
FRA Reflect Wavier	: Reflectorization Plan	Axle Count:	4
CC Side Bearing Type	: Long Travel Constant Contact	Bearing HBD Shielded:	
AEI High Temperature:		Empty/Load Device:	
Intrmdt Conn Sytle	:	Connectd Unit Count:	
Brake Shoe Type	: High Friction Composite	Rmt Mntrng Dvce Eqpd:	No
Equipment Builder	: Trinity	Operatng Brakes:	1
Builder Lot Code	: 9168	Compartment Count:	1
Built Country	:	PWHT Not Reworked:	
Rebuilt Country	:	PWHT Re-stress Rlvd:	
ECP Brake Builder	:		
ECP Brake Type	: Not Equipped		
Tank Major Class	: Steel Pressure Insulated		
Design Shipping CONT:	DOT 105A300W		
Stnclد Shipping Spec:	Major Class 80/90 - DOT 105J300W		
Tank Lining Material:	Unlined		

F2=List

F7=PrevScn

F8=NextScn

F10=NS Umler F11=Menu

F12=PrevScn

02/23/23 08:12:03

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OPTION: 08 EQUIPMENT UNIT: GATX 0000095098 Tank

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:  
 286K Aprvd COC/FRA Waiver :  
 Loaded Net Braking Ratio : 8.5 %  
 OP Loaded Net Braking Ratio :  
 Empty Braking Ratio : 26.9 %  
 OP Empty Braking Ratio :

F2=List  
 F7=PrevScn F8=NextScn F10=NS Umler F11=Menu F12=PrevScn  
 02/23/23 08:13:22

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OPTION: 09 EQUIPMENT UNIT: GATX 0000095098 Tank

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 1
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

Wheelset Cmpnt Id	: CONFIDENTIAL	Location 4
Axle Space Distance:	Axle Location 02	70 Inches

F2=List			
F7=PrevScn	F8=NextScn	F10=NS Umler	F11=Menu F12=PrevScn
			02/23/23 08:13:36

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OPTION: 02 EQUIPMENT UNIT: GATX 0000095098 Tank

Gross Rail Load/Weight: 263000 lb  
 Tare Weight : 83200 lb  
 Load Limit : 179800 lb  
 Weighing Status : Actual  
 Weighing Date : 04/24/1992  
 Gallonage Capacity : 25740 usgl  
 Star Code :  
 Qual for Inc GRL :

F2=List  
 F7=PrevScn F8=NextScn F10=NS Umler F11=Menu F12=PrevScn  
 02/23/23 08:11:29