



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>	
27	

Agency / Organization

**Norfolk Southern**

Title

**UMLER Data for GATX 0000080235**

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OPTION: 07 EQUIPMENT UNIT: OCPX 0000080235 Tank

Pool Number : 0  
 Pool Control :  
 User Routing Instructions:  
 Umler Transportation Code:  
 Transportation Cond Code :  
 Mechanical Restriction :  
 Mech Restriction Reason :  
 Sys Gen Routing Instruct :

F7=PrevScn      F2=List                      F4=Pool Hdr  
 F8=NextScn      F10=NS Umler    F11=Menu              F12=PrevScn  
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OPTION: 03 EQUIPMENT UNIT: OCPX 0000080235 Tank

Plate Code	:	Plate Code C
		Ft In
Outside Length	:	50 8
Outside Extreme Width	:	10 8
Outside Extreme Height	:	15 5
Outside Height Extr Width	:	8 6
Truck Center Length	:	37 1

	F2=List			
F7=PrevScn	F8=NextScn	F10=NS Umler	F11=Menu	F12=PrevScn
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EQUIPMENT UNIT  OCPX 0000080235      (T907-TANK
CLEARANCE PLATE C                      WIDTH      HEIGHT      LENGTH
OUTSIDE      (FT IN)      10 08      15 05      050 08
EXTREME      (FT IN)      08 06
TANK HEAD SHIELD      U      UNEQUIPPED
TANK HEAD THICKNESS ( IN )      0.5625      TANK SHELL THICKNESS( IN ) 0.5625
TRUCK CENTER (FT IN)      37 01

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

F10=EMIS

F11=UmlrMenu F12=PrevScr  
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OPTION: 10 EQUIPMENT UNIT: OCPX 0000080235 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  
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OPTION: 01 EQUIPMENT UNIT: OCPX 0000080235 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

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Option: 01 Equipment Unit: OCPX 0000080235 Tank

Eqp ID: OCPX0000080235	Eqp Type: T907	EIN: 0001071108
Pri EID:	Eqp Group: TANK	Pseudo Eqp Grp:
Status Code : ACTIVE		Delete Reason:
Last Update : 09/04/2022		Change Reason: Movement
Equipment Add: 01/01/1900	Eqp Add Co:	Change Date: 12/22/2007
Umler Owner : OCPX	Lessee:	Maintenance Party: OCPX
Built Date :		First Movement Date: 12/19/2007
Rebuilt Flag :		Rebuilt Date:
Conflict Stat :		Orig Conflict Date:
Next Conflict :		Next Conflict Date:
Rate Indicator: Private Mileage Rate		Notice Indicator:
Registration : New		Restencil:
Mark Owner Cat: US Private		LCS Date: 09/01/2001
Tank Built Dt :		Orig Cert of Constr:
MOW Svc Type :		

Non Compl Wheelsets:

F2=List	F4=Inspect
F7=PrevScn	F8=NextScn
	F10=NS Umler
	F11=Menu
	F12=PrevScn

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Option: 13 Equipment Unit: OCPX 0000080235 Tank

ABT 12-24 Mo Due Date: 09/04/2024

ABT 5/8-Year Due Date: 09/04/2027

Description	Date Done	Rept	Perf	Location
Air Brake Test (Auto. Non 4-Press)	09/04/2022	UP	UP	612200000
Air Brake Prior	04/20/2020	EDX	EDX	684737000
Reflectorization Event	04/20/2020	EDX	EDX	684737000

F2=List  
 F5=Right Map  
 F7=PrevScn F8=NextScn F10=NS Umler F11=Menu F12=PrevScn  
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OPTION: 05 EQUIPMENT UNIT: OCPX 0000080235 Tank

Wheel Bearing Type	: Roller	Truck Count:	2
FRA Reflect Wavier	:	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	:	Compartment Count:	1
Built Country	:	PWHT Not Reworked:	
Rebuilt Country	:	PWHT Re-stress Rlvd:	
ECP Brake Builder	:		
ECP Brake Type	:		
Tank Major Class	: Steel Pressure Insulated		
Design Shipping CONT:			
Stncld Shipping Spec:	Major Class 80/90 - DOT 105J300W		
Tank Lining Material:			

F2=List

F7=PrevScn

F8=NextScn

F10=NS Umler F11=Menu

F12=PrevScn

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EQUIPMENT UNIT	OCPX 0000080235	(T907-TANK	)
PRIOR CAR		EIN 0001071108	SWAP INIT OCPX
OWNER MARK	OCPX *PRIVATE*	BUILT	REBUILT
LESSEE MARK		FORMAT B	LAST UPDATE 20220905
CAR TYPE	T907	RATE HOURLY 00.00	MILEAGE 0.000
CAR CATEGORY	TK01	DEFAULT RATE ONLY	OT-37 00.00
WEIGH DATE	DEC/1990	STAR	NOMINAL CAP(000 LBS) 000
TOTAL WGT ON RAIL(000 LBS)	263	CAPACITY	24875 CG
TARE WEIGHT ( 00 LBS )	0840	NO. ARTICULATED UNITS	
LOAD LIMIT ( 00 LBS )	1790	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
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Equipment Unit: OCPX 0000080235

Inspection Type	Date Done	Rptr	Perf	Location	Due Date	Alt Due Dt	Id	Cat	Gr
AIR BRAKE	2022-09-04	UP	UP	612200000	2027-09-04	2024-09-04	_____	__	__
AIR BRAKE PRIOR	2020-04-20	EDX	EDX	684737000	_____	_____	_____	__	__
REFLECT APP	2020-04-20	EDX	EDX	684737000	_____	_____	_____	__	__

F10=EMIS

F11=Menu

F12=PrevScn

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EQUIPMENT UNIT OCPX 0000080235 (T907-TANK  
 OWNER INITIAL OCPX LESSEE BUILT REBUILT  
 PRIOR CAR GWR 263 TARE 0840 WEIGH DATE DEC/1990  
 AAR CAR TYPE T907 JOURNAL SIZE 6-1/2 X 12 INCHES  
 MECHANICAL CAR CLASS OUTSIDE LENGTH (FT IN) 050 08  
 ABT INSP DONE UP 2022/09/04 CAR GRADE LOAD/EMPTY L  
 ABT 12-24 DUE 2024/09/04 CDU REJECT CODE  
 AEI TRANSPONDER-ROAD-DATE 71- -00010101 STANDARD TAG, REG WND, TAGGED  
 CURRENT COMMODITY 4905792 VINYL CHLORIDE, STABILIZED CLASS 2.1 UN1086  
 LAST COMMODITY  
 COUPLER A-END SE60DE COUPLER B-END SE60DE  
 TRANS/TRANS CONDITION CODE  
 CURRENT BAD ORDER: DATE LOCATION REASON  
 LAST BAD ORDER : DATE LOCATION REASON

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

F4=Insp Dtl  
 F7=Backward F8=Forward F10=EMIS F11=UmlrMenu F12=PrevScr  
 MF0900 No Action Taken - PRESS an Action Key 02/23/23 07:51:53

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OPTION: 12 EQUIPMENT UNIT: OCPX 0000080235 Tank

Commercial Lessee CIF:

Commercial Owner CIF :

Umler Effective Date: 09/01/2009

F2=List

F8=NextScn

F10=NS Umler F11=Menu

F12=PrevScn

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F7=PrevScn

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EQUIPMENT UNIT   OCPX 0000080235 (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
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EQUIPMENT UNIT   OCPX 0000080235 (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
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

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OPTION: 05 EQUIPMENT UNIT: OCPX 0000080235 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: Unequipped

Jacket Mtrl Catg : UNEQUIPPED

Slack Adj Grp :

Coils Material :

Coils Ext/Int

Sfty Vnt/Srge Prt: No

Sfty Rlf Count 1

Sfty Relief Dev : Valve

Qual Due

Btm Fitting Prot : Unequipped

Year Year

Top Fitting Prot : Equipped with other than M-100 Tank Qualified:

CPC1232 Compliant: Thickness Qlfd:

TC-PD-34-Restrict: Service Eqpmnt:

Stub Sill Design : TRNTY3 Stub Sill Design Pressure Relief:

Stub-Sill-Dsg-Var:

F2=List

F7=PrevScn

F8=NextScn

F10=NS Umler F11=Menu

F12=PrevScn

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OPTION: 05 EQUIPMENT UNIT: OCPX 0000080235 Tank

Tank Head Thickness : 0.5625 in.  
Tank Shell Thickness : 0.5625 in.  
Head Protect Thicknss:  
Jacket Thickness :  
Insulatn/Thrm Prt Typ: Standard Fiberglass  
Insulation Thickness :  
ABT 4-Press Rcv Equip:  
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

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OPTION: 08 EQUIPMENT UNIT: OCPX 0000080235 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 : 26.6 %  
 OP Empty Braking Ratio :

F2=List  
 F7=PrevScn F8=NextScn F10=NS Umler F11=Menu F12=PrevScn  
 02/23/23 07:55:51

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OPTION: 09 EQUIPMENT UNIT: OCPX 0000080235 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 3
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
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OPTION: 02 EQUIPMENT UNIT: OCPX 0000080235 Tank

Gross Rail Load/Weight: 263000 lb  
 Tare Weight : 84000 lb  
 Load Limit : 179000 lb  
 Weighing Status : Actual  
 Weighing Date : 12/04/1990  
 Gallonage Capacity : 24875 usgl  
 Star Code :  
 Qual for Inc GRL :

F2=List  
 F7=PrevScn F8=NextScn F10=NS Umler F11=Menu F12=PrevScn  
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