



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	
28	

Agency / Organization

Norfolk Southern

Title

UMLER Data for OCPX 0000080179

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OPTION: 20 EQUIPMENT UNIT: OCPX 0000080179 Tank

BRAKE-SYSTEM	:	Location 1			
Emer Brkv Cmpnt Id	:	CONFIDENTIAL	Emer Brkv Recon Dt	:	0517
Serv Brkv Cmpnt Id	:		Emer Brkv OEM Wty Dt:		
Slack Adjuster Id	:		Emer Brkv Part Nbr	:	769141

	F2=List		F5=Right Map
F7=PrevScn	F8=NextScn	F10=NS Umler	F11=Menu F12=PrevScn
			02/23/23 08:06:52

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OPTION: 07 EQUIPMENT UNIT: OCPX 0000080179 Tank

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

	Pool	Assignments	OIC
AAR (Pool ID / Date):	0000000	02/10/2014	

F7=PrevScn	F2=List	F4=Pool Hdr	F10=NS Umler	F11=Menu	F12=PrevScn
	F8=NextScn				02/23/23 08:05:38

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EQUIPMENT UNIT   OCPX 0000080179      (T907-TANK
CLEARANCE PLATE C                               )
OUTSIDE          (FT IN)                WIDTH      HEIGHT      LENGTH
EXTREME          (FT IN)                10 08      15 05      050 08
TANK HEAD SHIELD U   UNEQUIPPED        08 06
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 0000080179 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 : Cushion Unit CID :

F2=List
 F7=PrevScn F8=NextScn F10=NS Umler F11=Menu F12=PrevScn
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Option: 13 Equipment Unit: OCPX 0000080179 Tank

ABT 12-24 Mo Due Date: 05/20/2022
ABT 5/8-Year Due Date: 05/20/2026

Description	Date Done	Rept	Perf	Location
Air Brake Test (Manual)	05/20/2021	ALX	ALX	421350000
Air Brake Prior	04/07/2021	ALX	ALX	423150000
Emergency Brake Valve Inspection	06/22/2017	UP	UP	684803000
Reflectorization Event	09/30/2010	EDX	EDX	684737000

F2=List
 F7=PrevScn F8=NextScn
 F5=Right Map
 F10=NS Umler F11=Menu F12=PrevScn
 02/23/23 08:07:24

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OPTION: 01 EQUIPMENT UNIT: OCPX 0000080179 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 08:03:19

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EQUIPMENT UNIT  OCPX 0000080179      (T907-TANK )
PRIOR CAR
OWNER MARK      OCPX *PRIVATE*      BUILT          REBUILT
LESSEE MARK
CAR TYPE        T907                 RATE HOURLY 00.00 MILEAGE      0.000
CAR CATEGORY    TK01                 DEFAULT RATE ONLY  OT-37      00.00
WEIGH DATE      OCT/1990                 STAR          NOMINAL CAP(000 LBS) 000
TOTAL WGT ON RAIL(000 LBS)  263  CAPACITY 24889 CG
TARE WEIGHT ( 00 LBS )      0835  NO. ARTICULATED UNITS
LOAD LIMIT ( 00 LBS )      1795  50YR LIFE          E ELIGIBLE
MECHANICAL CAR CLASS
CAR HIRE RATE                2     MILEAGE PAID
MECHANICAL DESIGNATION      T     TANK CAR
NS MARKET CODE              TA     TANK CARS, ALL
TRANS/TRANS CONDITION CODE

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F2=InspInfo   F3=Sts-Code           F6=PoolAsgn
F7=Backward   F8=Forward           F10=EMIS     F11=UmlrMenu F12=PrevScr
ENT=NextScr   CLEAR=Exit           02/23/23 07:58:14

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EQUIPMENT UNIT   OCPX 0000080179 (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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EQUIPMENT UNIT   OCPX 0000080179 (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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OPTION: 05 EQUIPMENT UNIT: OCPX 0000080179 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 0000080179 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: 05 EQUIPMENT UNIT: OCPX 0000080179 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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OPTION: 08 EQUIPMENT UNIT: OCPX 0000080179 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 : 26.8 %
 OP Empty Braking Ratio :

F2=List
 F7=PrevScn F8=NextScn F10=NS Umler F11=Menu F12=PrevScn
 02/23/23 08:05:57

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OPTION: 09 EQUIPMENT UNIT: OCPX 0000080179 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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02/23/23 08:06:15

