



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 | |
| 29 | |

Agency / Organization

Norfolk Southern

Title

UMLER Data for GATX 0000080370

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OPTION: 07 EQUIPMENT UNIT: OCPX 0000080370 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 | | |
| | F8=NextScn | F10=NS Umler | F11=Menu | F12=PrevScn |
| | | | | 02/23/23 08:20:18 |

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OPTION: 03 EQUIPMENT UNIT: OCPX 0000080370 Tank

| | | |
|---------------------------|---|--------------|
| Plate Code | : | Plate Code C |
| | | Ft In |
| Outside Length | : | 52 1 |
| Outside Extreme Width | : | 10 8 |
| Outside Extreme Height | : | 15 6 |
| Outside Height Extr Width | : | 9 6 |
| Truck Center Length | : | 38 7 |

| | | | |
|------------|------------|--------------|----------------------|
| | F2=List | | |
| F7=PrevScn | F8=NextScn | F10=NS Umler | F11=Menu F12=PrevScn |
| | | | 02/23/23 08:19:09 |

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EQUIPMENT UNIT  OCPX 0000080370      (T907-TANK
CLEARANCE PLATE C                      WIDTH      HEIGHT      LENGTH
OUTSIDE      (FT IN)      10 08      15 06      052 01
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)      38 07

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

F10=EMIS

F11=UmlrMenu F12=PrevScr

02/23/23 08:17:10

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OPTION: 10 EQUIPMENT UNIT: OCPX 0000080370 Tank

Draft Gear System : Location B
 Coupler Code : SE60EE - 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 : SE60EE - 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
 02/23/23 08:21:11

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OPTION: 01 EQUIPMENT UNIT: OCPX 0000080370 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 0000080370 Tank

| | | |
|--------------------------------------|-----------------|---------------------------------|
| Eqp ID: OCPX0000080370 | Eqp Type: T907 | EIN: 0009158731 |
| Pri EID: | Eqp Group: TANK | Pseudo Eqp Grp: |
| Status Code : ACTIVE | | Delete Reason: |
| Last Update : 02/01/2023 | | Change Reason: Movement |
| Equipment Add: 02/06/2006 | Eqp Add Co: | Change Date: 12/22/2007 |
| Umler Owner : OCPX | Lessee: | Maintenance Party: OCPX |
| Built Date : | | First Movement Date: 12/20/2007 |
| 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: |
| 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 0000080370 Tank

ABT 12-24 Mo Due Date: 12/11/2023
ABT 5/8-Year Due Date: 12/11/2026

| Description | Date Done | Rept | Perf | Location |
|------------------------------------|------------|------|------|-----------|
| Air Brake Test (Auto. Non 4-Press) | 12/11/2021 | UP | UP | 644493000 |
| Air Brake Prior | 03/20/2017 | PTRA | PTRA | 684800000 |
| Reflectorization Event | 12/27/2015 | EDX | EDX | 684737000 |

F2=List
 F5=Right Map
 F7=PrevScn F8=NextScn F10=NS Umler F11=Menu F12=PrevScn
 02/23/23 08:21:46

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EQUIPMENT UNIT OCPX 0000080370 (T907-TANK)
PRIOR CAR EIN 0009158731 SWAP INIT OCPX
OWNER MARK OCPX *PRIVATE* BUILT REBUILT
LESSEE MARK FORMAT B LAST UPDATE 20211211
CAR TYPE T907 RATE HOURLY 00.00 MILEAGE 0.000
CAR CATEGORY TK01 DEFAULT RATE ONLY OT-37 00.00
WEIGH DATE MAR/2006 STAR NOMINAL CAP(000 LBS) 000
TOTAL WGT ON RAIL(000 LBS) 263 CAPACITY 24620 CG
TARE WEIGHT (00 LBS) 0808 NO. ARTICULATED UNITS
LOAD LIMIT (00 LBS) 1822 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 F11=UmlrMenu F12=PrevScr
ENT=NextScr CLEAR=Exit 02/23/23 08:16:06

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EQUIPMENT UNIT OCPX 0000080370 (T907-TANK
 OWNER INITIAL OCPX LESSEE BUILT REBUILT
 PRIOR CAR GWR 263 TARE 0808 WEIGH DATE MAR/2006
 AAR CAR TYPE T907 JOURNAL SIZE 6-1/2 X 12 INCHES
 MECHANICAL CAR CLASS OUTSIDE LENGTH (FT IN) 052 01
 ABT INSP DONE UP 2021/12/11 CAR GRADE LOAD/EMPTY L
 ABT 12-24 DUE 2023/12/11 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 SE60EE COUPLER B-END SE60EE
 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 Dt1 F10=EMIS F11=UmlrMenu F12=PrevScr
 02/23/23 08:22:41

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OPTION: 12 EQUIPMENT UNIT: OCPX 0000080370 Tank

Commercial Lessee CIF:

Commercial Owner CIF :

Umler Effective Date: 09/01/2009

F7=PrevScn F2=List
F8=NextScn

F10=NS Umler F11=Menu F12=PrevScn
02/23/23 08:21:27

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EQUIPMENT UNIT  OCPX 0000080370 (T907-TANK                               )
NO OF SAFETY RELIEF DEVICES      1  SAFETY VENT PROTECTION (Y/N)      N
STUB SILL DESIGN                  TRN023
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

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EQUIPMENT UNIT  OCPX 0000080370 (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                    SE60EE  COUPLER B-END                    SE60EE
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 08:17:27

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OPTION: 05 EQUIPMENT UNIT: OCPX 0000080370 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 : UNEQUIPPED
 Coils Material :
 Sfty Vnt/Srge Prt: No
 Sfty Relief Dev : Valve
 Btm Fitting Prot : Unequipped
 Top Fitting Prot : Equipped with other than M-100
 CPC1232 Compliant:
 TC-PD-34-Restrict:
 Stub Sill Design : TRN023 Stub Sill Design
 Stub-Sill-Dsg-Var:

Slack Adj Grp :
 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 08:19:38

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OPTION: 05 EQUIPMENT UNIT: OCPX 0000080370 Tank

Tank Head Thickness : 0.5625 in.
Tank Shell Thickness : 0.5625 in.
Head Protect Thicknss: 0.5000 in.
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

02/23/23 08:19:56

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OPTION: 05 EQUIPMENT UNIT: OCPX 0000080370 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: | DOT 105A300W | | |
| 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 0000080370 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 : 27.7 %
 OP Empty Braking Ratio :

F2=List

F7=PrevScn

F8=NextScn

F10=NS Umler F11=Menu

F12=PrevScn

02/23/23 08:20:34

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OPTION: 09 EQUIPMENT UNIT: OCPX 0000080370 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 |
| 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 |
| 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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Equipment Unit: OCPX 0000080370

| Inspection Type | Date Done | Rptr | Perf | Location | Due Date | Alt Due Dt | Id | Cat | Gr |
|-----------------|------------|------|------|-----------|------------|------------|-------|-----|----|
| AIR BRAKE | 2021-12-11 | UP | UP | 644493000 | 2026-12-11 | 2023-12-11 | _____ | - | - |
| AIR BRAKE PRIOR | 2017-03-20 | PTRA | PTRA | 684800000 | _____ | _____ | _____ | - | - |
| REFLECT APP | 2015-12-27 | EDX | EDX | 684737000 | _____ | _____ | _____ | - | - |

F10=EMIS F11=Menu F12=PrevScn
02/23/23 08:23:13

