



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	F
EXHIBIT	
30	

Agency / Organization

GATX Corporation

Title

**Application for Approval and Certificate of
Construction, GATX 95098, December 30, 1991**

APPLICATION FOR APPROVAL and CERTIFICATE OF CONSTRUCTION

APPROVAL REQUESTED OF: [X] Precedent [] AAR Tank Car AAR NO. F916110
Committee Ballot Applicant's No. 9168
Applicant TRINITY INDUSTRIES, INC. P.O. BOX 568887 DALLAS, TX 75356-8887 DATE: 12-30-91

APPLICATION FOR APPROVAL OF: [X] Construction [] Conversion [] Alterations [] Welded [] Repairs (Other)
Reporting Marks
and Car Numbers GATX [] Number of Cars []

1. Tank Specification DOT 105A300W
2. Stenciled Specification DOT 105J300W
3. Commodity SEE NOTES
4. Initial Commodity 6.91 lb/gal (kg/L)
TANK SHELL:
5. Full Water Cap'y 25,742 gal (L)
6. Dom. Cap'y or Outage, 515 gal (L)
7. Material TCI28B NORM. Lining PLASITE 3070
Head thickness 9/16 MIN. in (mm)
Shell thickness 9/16 in (mm)
8. Inside Diameter, 116 in (mm)
9. Head Main 2:1 ELLIP. in (mm)
Radii Knuckle N.A. in (mm)
10. Test Pressure, 300 psi (kPa)
11. Insulation, 4 in (mm) Kind
Thermal Conductivity 0.256 Btu-in./hr.-ft.-F (kJ mm/h m2 C)

SAFETY RELIEF DEVICES:
12. Type VALVE Number 1
Start to Discharge 225 psi (kPa)
13. Flow Cap'y, (Air) Actual 29280 cfm (m3/s)
14. Flow Cap'y, (Air) Reqd. 18560 cfm (m3/s)
15. Tank Surface Area 1547 ft2 (m2)
CAR STRUCTURE:
16. Underframe Type STUB SILL
17. Estimated Light Wt. 83,500 lb (kg)
18. Center of Gravity Loaded 89.25 in (mm)
19. Rail Load Limit 263,000 lb (kg)
20. Truck Capacity, Tons 100
21. AAR Clearance Diagram Pl. C
0.65" FIBERFRAX WITH 4" FIBERGLASS COMPRESSED TO 4" TOTAL THICKNESS.

NOTES: PROPYLENE OXIDE AND PRODUCTS AUTHORIZED IN DOT 173 FOR WHICH THERE ARE NO SPECIAL COMMODITY REQUIREMENTS AND NONREGULATED COMMODITIES COMPATIBLE WITH THIS CLASS OF CAR.

Original Certificate Number
Builder/Date
Former Lading

Table with columns: The Following Drawings Apply, Drawing Number, Drawing Number, Application/Certificate. Rows include items like General Arrangement, Tank Arrangement, Reinforced Openings, BOLSTER AND DRAFT SILL ARRANGEMENT, Fittings Arrangement, Manway Assembly, Protective Housing, Venting, Loading and Discharge Valves, Safety Relief Devices, Heater Systems, Gaging Devices, Bottom Outlet Valve, JACKET ANCHOR, MANWAY COVER, CALCULATIONS.

REVISIONS:

APPLICATION BY SANDY L. McQUEEN
I certify that the foregoing conforms to all applicable DOT and AAR requirements, including Specifications, Regulations, Rules of Interchange and the DOT Railroad Safety Appliance Standards
SIGNATURE []
TITLE ENGR. MANAGER - PRODUCTION

APPROVAL AAR Tank Car Committee Date Approved 2/7/92 [] Secretary
(Signature) of behalf of Tank Car Committee

CERTIFICATE OF CONSTRUCTION: The cars enumerated below conform to the above approved description and to all applicable DOT and AAR requirements, including Specifications, Regulations, Rules of Interchange and the DOT Railroad Safety Appliance Standards. Copy of this Certificate of Construction will be furnished to the owner and others required by 49 CFR Part 179.5 before these cars are placed in service.

Initials and Car Numbers:
GATX []
Date 6-19-92
By []
Title Director Quality Assurance

APPLICATION FOR APPROVAL AND CERTIFICATE OF CONSTRUCTION - SUPPLEMENTAL NOTES

GENERAL ARRANGEMENT - D-40418 REVISION D

DRAWING D-40418 REVISION D IS THE SAME AS D-40418 REVISION B EXCEPT THAT THE TOP PLATFORM HANDRAIL SAFETY CHAIN HAS BEEN DELETED AND AIRBRAKE NOTE 8 HAS BEEN REVISED TO REFLECT ABDW STABILIZED, ABDX OR DB60 EQUIPMENT IN LIEU OF ABDW.

TANK ARRANGEMENT - D-42540 SH.1 AND SH.2, REVISION A

DRAWINGS D-42540 SHEETS 1 AND 2, REVISION A ARE THE SAME AS D-42540 SHEETS 1 AND 2 EXCEPT THAT NOTES REQUIRING LIQUID PENETRANT OR MAGNETIC PARTICLE EXAMINATION OF FRONT SILL PAD AND REINFORCING BAR WELDS HAVE BEEN ADDED TO DRAWINGS.

FITTINGS ARRANGEMENT - D-44638 SHEET 1 AND SHEET 2

DRAWINGS D-44638 SHEETS 1 AND 2 ARE THE SAME AS D-44571 SHEETS 1 AND 2 EXCEPT THAT ELASTOMER SEALS AND O-RING IN VALVES AND FITTINGS HAVE BEEN CHANGED FROM EPDM MATERIAL TO EPR MATERIAL.

APPLICATION BY SANDY L. McQUEEN

I certify that the foregoing conforms to all applicable DOT and AAR requirements, including Specifications, Regulations, Rules of Interchange and the DOT Railroad Safety Appliance Standards.

SIGNATURE [REDACTED]

TITLE ENGR. MANAGER - PRODUCTION
RAILCAR DIVISION

APPROVAL AAR Tank Car Committee Date Approved 2/7/92 [REDACTED], Secretary
(Signature) on behalf of Tank Car Committee